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<210> 7403

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7403

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ggccagnct ctggatatcc ttttttttaa ttttttagag caagacgtat ttcaacgact 480
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<211> 420

<212> DNA

<213> Homo sapiens

<400> 7404

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 caaagtgtg ggattacagg catgagccac tgcgcctggc cttctcttt ctctcttttt 300
 attttttgaa aaaccggga gactttgcgg tgaccatttt ttttttttt 360
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<210> 7405

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7405

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<210> 7406

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7406

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<210> 7407

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7407

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 gcacgcatta ggtatttgtc ctaatgtctt ccttccctc atccccacc cccaacaccc 180
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 ggctacaggc caacaaagag caaatggtac agtgagagat gtgacaggcg angtaaagca 480
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<210> 7408

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7408

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ccaatttagt aaccagaaag gaatagatcg gcctggcgtg gtagctcatg cttgtgatcc 180
cagcactgtg gacggccgag cgcggcgac gattgagcct aggacttcca gaccggcctg 240
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<210> 7409

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7409

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ggaatacagg catgtgccac cagcctggc taatttttgt attttagta gagatggggg 180
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ttcttgagac atcttaaatg aacatatagc ttcaggaagc catggtagca gacaggacca 360
cagtgtttc cgtgatgtgg cccgtctcct agagtccagc agaccggacc ttcgcaagaa 420
aaactgctga ggagatggag aangaaaggc ccaaagcctg gtattcactt caaaagcnag 480
cgctgangan atggaggaag ggcnaaaacc tggatattac ttanangca gccttaagaa 540
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548

<210> 7410

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7410

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agagtacaga ataaataaat tagtctgtta tataatggca taaaatacat ttactaatag 180
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ttaaatatca gaatatctaa tacataccgc aatatgtaaa gaatttttaa ggttgggggt 480
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tggtttaaat ttttgaaaaa ggnc 564
    
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<210> 7411

<211> 530

<212> DNA

<213> Homo sapiens

<400> 7411

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ttacaggcat gtgccactac tcctggctaa ttttttattt ttagtagaga tggggtttct 180
ccatgttggt caggctggtc tcaaactccc gacctcaggt gatctgcacg cctcggcctc 240
    
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ccaaagtgct ggggttacag gcatgagcca tcgcgcctgg cccctacatt tttaatgcct 300
 ctaaaatcca gacatgtttt tataatcaat ggcaccttgg acttgatgaa ataaagtaat 360
 caaatagttt taataaatca aataccttta aaaatataaa caatttaaaa attggtctaa 420
 gaccaggtt ccaaccttan gatctggata tgaccataat gctatantag catattaaag 480
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<210> 7412

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7412

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 accttttttag gagtagttac agatattata gggatggggg cggggggcac taaaacaaaa 120
 gagaaaagcn ccagtganat gtctttccca ttttcttctn tccgccacgg aacacgcaca 180
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 ctaaaacgag gtctgttttt ttaaaaaagt tctaaaacan caggaggaaa acacatggaa 360
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 tgaaaggggc aaagggtcc ttgcncggc anggacctgc ccggccacct tcnattccct 480
 ggccttaacc cttctttttt cctttnaaaa ggcaaanccc cacttttggg actcggtcgn 540
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<210> 7413

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7413

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 tacaggcgag cgccaccaca cccggctaata ttttgcatTT ttagtagaga aggggtttca 180
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 tgttccagct ctaccactaa caagcgatgt aaacttgggc aggtagcaat ctcttctgac 420
 ctgtttcttc atcttaaaat ataacaatat ttcttgccct gcctaaacca ttgggatggt 480
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 acncctgngn gaccatgtca ng 562

<210> 7414

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7414

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 tctatgtccc ctttttttTc ctttcttgcc ttcttttTgga ttatttttta ttattccatt 180
 tccttcctgc taataactta atggatatat attacttttt accatcataa atgctttata 240
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 ggacatcaca ccccgacaac atgactcacc ttcagagaaa atttagttag aatgacggag 420
 aattccagaa aaattactgc atactcagag tgccaatttt tcagaacttc atgcaaaatg 480
 tttatttTggc cacaatctca aaactatatt cccaacttgt tctgaagttc atattaatat 540
 tngnaactta aatggcnttt aaa 563

<210> 7415

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7415

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aacataaaag acatttaata agttataatc aagtattatg tttcaatttt gttgtgagtt  180
tattacattt gaaagggtgt aacacattgc acataatgaa atagctgtta tttccttttg  240
aggggttaag gtaaattggag tacaatctga agtatgctct gtttttttcc tgcaagcctc  300
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tgagtaagcc cattagctag gaagagatta taacactggt ccctgactat aaacttaatc  420
ctagttagca gcttttctaac tccctttaca acagggaaga ctgagtggga aaatgtagaa  480
aaccaatgc actttgnacc acaggagaga ancacctgng aatatcatgc taggnngaan  540
ggaaggncct ttatttang                                         559

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<210> 7416

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7416

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ctccactgtc ccttccctc accaaaaatt aagtatagac cacctgactg catccattta  180
tcaatattaa ctgagctctg gcttcatcag atttctcctt aggtctgatt tcttcaactc  240
tttaaaaaaa gattgcttct caaactattt attttctgag atagggtttt gctctgctgc  300
ctaggctgga atgcnagtgg tggaatctca gctcaatgca aactctgcct tctgggttca  360
aggcccatcc tccaccttaa gcctcctgag taactgggac cccaggtggc caccaccaca  420

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ccgggctaata tttnggnttt ttattnaagn caaggtttac catggttgcc caggctggtc 480
ttcnaattcc tggctcaagn aacctattgg cctngggctt ccaaa 525

<210> 7417

<211> 480

<212> DNA

<213> Homo sapiens

<400> 7417

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attttcaaga tggcaccttt ccccaaactt ctataccatt cattaaacat agactgcaaa 180
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cagctgttag acagcatgct gntccccgct actgncttac accaaccag cttcatgngg 420
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<210> 7418

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7418

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atgcaaactg tcattctttg aaactgctgg tatgtggaga ttgcacaact tcatgtacaa 180
atgaacatgg aaccagagaa accacttagc agttacactg gtacaacaac accatacaaa 240
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cctgtcattt tagcaattta tagtttgctt gatatatgtg tctgtgtgta tgaatctaaa 360
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 gaacaaaaac atcacaaaca ggtaaagcat ggagaatctg gtggggtnaa gggccttgga 480
 antgccaaag gaaaatggat ggtactatcc ntttgggggg tcaatcactt atttgaaagg 540
 gctggaaaaa gacaagta 558

<210> 7419

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7419

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 ctttttttaa aaaaattcgt tgatatacag tattattaat ggggagtagc tgataatttg 240
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<210> 7420

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7420

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 gcatacaaag cctactttct ggcccctacc cactttctta gtcagatata tctcactgaa 180
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 ggttggttgg tttagacaa ggcttgctct ggcacccaag aaggatggt ggnggcatga 480
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<210> 7421

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7421

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<210> 7422

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7422

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gtccggcagg ctggtgggcc ntttaaggctg tgcagccgtt gcaacacccc tggncgctta 540
acgaccaaag cggttcang accggccna 569

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<210> 7423

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7423

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tacagtgcc cgccaccacg ctcggtaat ttttttgtat ttccagtaga gacggggttt 180
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ttggtatgca tctctgcaca tggtgagaac atcaatagat aatccatatt catcacctct 360
tagcatttca gttttcagtt gaagactaaa aaatcaaac aattttaaag ttaaaatata 420

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ctctaaatat tatccctcct tgggagtaat tgntgctatt gggtttatga tagtcatcaa 480
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 ataggaaaaa agttgnng 558

<210> 7424

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7424

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 agtgcagcct gccaggccag cagcaaacta actagtgtg gccagaagc ctctgctcca 180
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 ttcagtaagt atgaacaaaa ttagaactgg gtagccagcc cggggtcggg ggggaggtcc 480
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 anctggccct gggataactt ttagccngg 569

<210> 7425

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7425

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atgcatcctc taacactgac caacataact aagtacaaat gaagtcaatg gtgtacccca 180
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 gcana 545

<210> 7426

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7426

gagacagagt ctcactctct tgcccaggct ggagtgtagt ggctgatct tggctcactg 60
 caacctccac ctcccgggtt caagcaattc tccccatca gcctccaag tacctgggat 120
 tacagatgcc tgccaccacg cccagctaatt tttttgtatt tttagtagag acggggtttt 180
 gccatgttgg ccagggtggt cttgaactcc tggcctcaag tgatctagcc gcctcggcct 240
 cccaaagtgc tgggattaca gacgtgagcc actgcgcccc gcctcaggct ggaattctga 300
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 tcacacacct gacaagtggg acaacaaaat tcaaaccag gtccgcaggg ttctgaggtc 420
 aaggctataa tccccagggt agcctggctg ggtcaagctc aaggagcatt tngngaactg 480
 aantaacgcc taatcnggtg ctgggtatga acgcaacaan caccactgga naaggccaan 540
 ttggcacanc ttgttaagca ggaagcccca 570

<210> 7427

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7427

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aaagactggt tctgtcacca ggctggagtg caatggtgtg atcgtggctc agtgctgctt 60
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catgcatcac catgcctacc taatttttgt attttttgta gagatgggggt tttgccatgt 180
tgcccaggct ggtctcgaat tcctgagctg aaatgatcta cccaccttgg cctcccaaag 240
tgctgggatt acaggcgtga gccaaaagtc aaaaatttta aaaaggtaaa tgttgccaat 300
tcatttttaa aagtttttatt atttttggtg ctccaaaaca tttcttttg aaaatgaagc 360
acacagaata catttaaaat ctgatgtaaa aaaccaaaca tctgatttta aatggtggta 420
tacaaaaatc caatcccagt aaattggctc ctttccaaga atggaagcat cttttcctta 480
ngaactacat tttcttttat ggnaggaaaa aaaaaatcta ttaaataaag tctggtccaa 540
agactnaaga cactggaaat ncccgggnga ngga 574

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<210> 7428

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7428

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ganaaggagt ctcactttgt tgcccaggct ggagtgcagc ggtgcaattt cagctcactg 60
caacctccac ctcccagggt tacgcaattc ttgngcctca gcctcctgag taggtgggat 120
tacaggtgcc cgccaccacg ccctgcttat ttttgtattt ttagaagaga tagggttttg 180
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ccaaagtgct gggattatag gagtaagcca ccgcgcccg gcccaataaag ctctttttta 300
gtgatcatgt ctgaactcta cagtaatgag gctttaccac attcccatgt gacccgacgt 360
tgatgtgact acacaagaag aacctgttaa ctaaagccaa gaaggcggag tcgacagctc 420
cgtgactcgt taggaaggat gggaaatgca ntgtagaaag acaaccccct ntccagagct 480
tggaacacaa gcttcatctg aagacgatta anattccctt cttgganaaa ttggcaattc 540

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ncanggcacg ccnct

555

<210> 7429

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7429

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gcagccaggg agagaaaaga ggcacacccg gagctggtat ccctcacctc caccactcag 180
caaggcgccg gacagatata cggagggcac tctgcctctg ccgggggggt tttttagaaa 240
aggaattgca tagaagatac agcaagaggg aactccacaa caacaaaagt gttccatata 300
ggaaaagcca aggttgtcat gttttgttta aaaaagaaaa acgacaaagc acaaaacctc 360
aatccgacct ttctgcagtt gaactgttcc aaaggggaca gtaggtggat gacactgcct 420
cttcaacacg actgctgggg atttttctct gacaaacatt gggnccttct tacaagagca 480
aagaggaagg caccaacttg cttaactcac attaaactca cacntttaca ccatgacnta 540
ccacacncag ggagntcctg n 561
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<210> 7430

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7430

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gtagatagat ttctcataga tttatttctg cgtcatatta tatatagata tatgcatata 60
tacctttttt tttttaatac aatctatata cccttcctt cccacacaaa ctcacaaaag 120
gagattaaac ccttcagga ttgccatcaa gcttcccag atggccaggg ccaagaaaga 180
atcatctctc aacatgttaa gaaacggctg ccattcttag gctctggggt tgaagcagca 240
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gcattcccag gacccaaggg ccagagagag gaaaagaaat gactgtagtg tgacaggatt 300
 ctaggatgaa catgtccagt gactcctggc atggcagact ggctcccaga attctcaggg 360
 tgtgagtaaa ggtggggggcc ctatggctct tcagaggctg ctcaataggt cangggtagg 420
 gtataggaac tggggatcag gcatgcaggg atgggggtggc agaaaaaacg ctgngggnta 480
 tgctccagac agagcgaccc catcaggcta cccactactc atgacatgta atgaacaggg 540
 ccaatcctga ctnttaagga 560

<210> 7431

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7431

gagatggagt cttgtattgt caccggggct ggagtgcagt ggcgtgacct cggctcactg 60
 caacctctgc ctccaagcga ttctcctgcc tcagcctccc aagtagttgg gattataggt 120
 ccctgccacc acgcccagct aatTTTTATA tttttagtag agacagggtt ttgccatgtt 180
 ggccaggcta gtctcgaatt cctgacctga ggtgatccac ctgcctccgc ctccctaagt 240
 gttgggatta taggtgtgag ccaccacgcc cagccctttt taagaaggtc tttctactgc 300
 cttggaaaaa attcagattg ctttaggaat cattactttc tccaggccta cacctctcac 360
 aggaagaaa aaagtgcattg tctcctaaga agtgccagag cagttaacta aagcacttgc 420
 ttcaatgctg gctctaagct aatagaacaa gaatcccaaa tgaagccac aagagttttc 480
 tgnaaaacac tgaccgaaa aacacttgct tttggtttta acttggccgt taaaaaatat 540
 tattaacctn ccgaa 555

<210> 7432

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7432

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cttgccagaa gggttgattt ttaattatgt gtatatacaa acttctctat tttaacattc 60
aacatattca ggattaattc tagaaagatg ctatagctga tttataaaac aaaatgattt 120
aggatcagaa agaaaaatagg ggcacacaat ttcattgtagt ctctccctaa ctacccccaa 180
ccatagcatc acaaggtttt tttttttcct aatgccacaa ttgaaacctg tattaactta 240
aaagttgaca ctaaaggcag gaattaagaa gtcatttttt atggctttta agcacttgaa 300
tgctttanaa ccccttgaa aatgctagtg aacaggctctt attcctttaa atgttgcttt 360
gatttgaatc ttggtgaaat ctagattccc tattaaatag ctgcatgcta attttggaga 420
aaagtcaatt taaaaccttt aacaactact ctattggact tgaaanaang ggactttanc 480
atgtcccttg ttgggcttan aaaaancctt caacccttt ttgncaacct aagataaaaa 540
ccatggatgg ggacctcc 558

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<210> 7433

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7433

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gagatggggc ctcgctctgt caccaggct ggagtgcagt ggcaccatct cggtcaccg 60
caacctccgc ctcccagggt caagcaattc tctgcatcag cttcccaggt agctgggact 120
acagatgtgt gccaccatgt ctggctaatt tttgtatttt tagtagagat ggagtttcac 180
catgttggtc tcaagctgct gacctcaagt gatccacctg cctcagcctc ccaaagtgtc 240
gggattacag gtgtgagcca ctgtgcccg ccagcatgga ctttttaagg aagtattttg 300
tatcttggtt aagaagttgc agcaagaggt ctttcttgct aagagagata ttttatctta 360
tttactgggt gttaaaaatt atctttcttt aacaaacact ctaaggagtc ttttaaagaa 420
ccntaaaang gttattacca aactagaatt tttaatgggt ccataaaca aaattctggt 480
tgcttanttg natggnaatc ggcttcaact tgaaacttag gaccaacat tttggcttgg 540
tgagccaaca ttaatctgga g 561

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<210> 7434

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7434

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cagattttct tgctttaatt cttctctata ttaccacagt aaaatattta acaaagtcca 60
agagattact gatatgcaat aatgacctat gactttacat taatggagtg atgtatcaat 120
aataaactga tcagttaagt aactggaaaa tgtttgcattg taaagaatga ttcactatcc 180
tttttatctt gtattgaaat cgtcaaaaca tttaaaaaca caaagttgaa gtaattttta 240
ataataataa ctgtgaaata ctgcaacatc ttgaagtact ttataaatga ccaaaaacag 300
gtaaaatttt gttcagtata acttcagtga agaagttttt tgacacagaa ctacatatat 360
ttttaaattg gtaatccaca taagatatac acaaaacctt caaggtgact acattgggtca 420
ataaataaaa ctctacattg nttggtttta caggcctagg agcttatacc tcagtaccac 480
cctttaagga aatctaagtc tacagaagga cttgtccaaa tggttgggcc catnaattct 540
ttacaaaaac ctccaat 557
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<210> 7435

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7435

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cctgacagac cccaggaggg tcggtcagtg tttcaggagg tttacttgaa tcactgtcca 60
ctttctgggc tttgcctcct cctatctgtt tgctctgttg ctgttcagag aagaaccgtt 120
gcgtggactg aagaacctct gctctctgct ttgcctgggg tgcaaactgt gtaggaaatg 180
gttgtgtcat tctcacagtg gcaggggctg actggaactg cttctggtag acaatgctgt 240
tcattttgct ggactggctg ttcggacttg tagaagtagc ccggaaggga ctagatgttg 300
gtgtggtgct tctaccagcg attggaggtg tgcctggttt tatatcaatg ccacttccaa 360
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aggcttttag ttccatttca gacatttttc ctgtggttgc aatcatgcta tgctgngttc 420
 cagcaggaat taatcctctt gaaaggctgg cttacttggg caggacgact aaaactttaa 480
 ncctggcctg gggaatggta tgctgaatgg ggcttaaaaa tcttaagcaa accattanag 540
 gttncctgna aacca 555

<210> 7436

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7436

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 acaaatttct cgggaggcac gtagcaaaag gccattgagg aacagagcct gatgaaacga 120
 acaatttttc aaagtctggt tacagagaag gaaagtgaag catctcaagg ctgggatgct 180
 gctgccacc cccacccac cccgccacca agtgacattg aggctgggca ggccacatgg 240
 cctgggccct ggcgctggcc actcatttcc ttcaaaatct tggttttggc aaaaacatgg 300
 caagtcggca aagtaaactg tctcgccagt gggggtggtg aggggtcctt cctctcttgg 360
 gtggggaggg agtcagacgc ccagtgcacc aacttccatg cacacacact cacactcata 420
 cactccttct cgctgacctt ctcttggtg caacaagcca gcccggtgcc tgcagatcac 480
 ctggtgatgt gtgcacctga tggagctatt aaggccctnt tttcccagg accaagacag 540
 taacaggaan cngaaggg 558

<210> 7437

<211> 590

<212> DNA

<213> Homo sapiens

<400> 7437

cattttttta caagactttt atttgtacaa agcattacaa tcttctcagc attcttcaact 60

cacaaacttt tcactgtatt taacaagtta acagtgtcaa actacacgtc actacctgtc 120
 aaacccaag cactcaactt agaaacaaaa agcgcttgga gcactgaatg gaaacagaaa 180
 aaggctaaga aaggccaaca gagatatittt agaagcagtt aaagaggatg gtttagggag 240
 agttagattc ctgagcacca tcagatttcc cttaaggttt tttgtgaagg ggcttcacaa 300
 aataattttt agaaggacat gagacaaaat tagccaggct tgggtggcacg catctgtagt 360
 cccagatact caggaggctc aggcggggagg atcacctgag cccaggattt caaggatgca 420
 atgagctatg atcatgccac tggacttcan cctggggcca canagtgaga gactcctctt 480
 tttaaaacca aaccgnggga ttngaactta gggatcaaga gatccgagga cttacacttt 540
 ggggnttaan cgggttttaa actttccact ggccaaatgn aaaaaggggc 590

<210> 7438

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7438

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 caattgagtc cataggagaa gacgacattc ttgcttgaca aggtaggaac aaattcatta 120
 tatttcacca agactaaaat tacaagttt ggggtgtgtaa aggcaagatt taattgttgg 180
 gaaaatttat ccgagccagc caccacgaca aaagccaggc tgaccaaate aaatggattc 240
 ttacatcct ccaagtttca gaagaatctt gaatatgggt agccagaaga tatggtaa 300
 ttgaccccaa acatttgctt gaaggagtaa ggtcttctaa tgagtgaatg tcaagagatc 360
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 ttgcagtcca catgggcagc atcttttcca tggcttcgag gctcaatgat caaaggttgt 480
 ttaaccagat cttaaaggtn ttttaaaagg cctctncatt tttttttgg gtggtttaaa 540
 agagagaaat ncnccagggg an 562

<210> 7439

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7439

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gnttctttga attttatctt tatttctcca taagggaat cagagaaata tgctttcctt   60
ttaacaagc tcatctttaa tgtggtagca aagatggaag gtgcgagacc aaatcttacc  120
aaactagcta tttttacagg ccaataaagc aacatgcaat cccctcaac aaatttaaata  180
aatcaggcaa tactaagaat gtatatcca ttaaactaaa ataaacaagg ttgaaatgtg   240
gtacagaatt cactgatgag cctgtgaact ccacgtgagg atgtccagtg ccttatttat   300
ctcagtaacc agagtacca gcacacaaga taaaagtggg tattacctaa gtggccacta   360
ttttattaat aatgcacata acatatgctt atcattaact cttaaaaaga ttattattta   420
actatncagg aactaccata cacatttcaa catacaaggc tcctatcttt nttagaatnc   480
ccattaatat ttggaagaat tgggaaangt ttcccanggc tttcctatac aatcccccca   540
n                                                                    541

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<210> 7440

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7440

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acagttgcct gtttattatt ttcaaaaaca aaacaaaaac aaaagacatt caaaattccc   60
ctgtggtgga caactgagtt gatgtggctg atccaggctg tctcccaggt tgtctcaggg  120
agcatcagtt gtactagggg gtgggctgtt gccctggcac ggctggatga acacttgcac  180
cagggatggc catcagaaga gctgcaggcc agttttgagc ccatgcagct gccctggct   240
ccagagaagg ccctcgaagt tgctgctgct gctgttgctg cagttgccac tgccgacacc  300
acagctcagg cccaagggtg cagtcttgca tgttgagggt tccagccgct gctctagcac  360
aggctggtcc aaaagatcat ggtgtcataa ttctccagca tgagctctgc tgggtcctcg  420
nctgactggc attcggncat agggaaatgt gtcccatcna cgtttntgag ctttaactgca  480

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tcaaagcctt gcaaagtct ntttttgggc caaacctac antttcggag gggggg 536

<210> 7441

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7441

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 tcaccactc cagggaggaa cagaaaatcc ccaccccctt ccattctgga gatttcgtat 120
 ctaaagcctg agaggcgagg atgaagtata aaaatactat ttacaaaggg aaggaggtat 180
 ctgttgctta accgtagaca cccccatccc cacaccccctt ttgatcaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaggcccct gggaatcaat ttaagtatag aactagccct cctntanagg 300
 ggcccacaaa cctnaacatg gaataggaag ctccgagatt aactgaggaa gagactgaat 360
 ggatagcacc cgtgggtcct ggcaggggaa nggccctctc ttactctgga gcagctggcg 420
 cccgccaagc cttgggttca tanggccat gtaaccctgg cattttcctt tnggncctgn 480
 tttttggttc aaacaagagc ttcttggcnt nccggggagg cnccttggttc ctt 533

<210> 7442

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7442

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 tcaaaaccct aaatccaaac taaaacatcc cgatttttta actagcactc tctttttctc 120
 ttccattttc ttaaggagtg agttcacata gcaagctctc tgcccacaca cccttgagc 180
 tcagttaatg cttctcctcc cagtcctcca ttctctccct ggggccactt tctcagagat 240
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caggaaacat ctcttggcct caataagaaa tctctcatca tgttccaagt gaattttcgt 360
 atgttagcaa gtttggacta accaatctcc ttcacagaat gcctaggatg aaatggcggg 420
 gcaagcatgt gtgggtagga gctctgcact cattccagat tccataggaa ccaccttaaa 480
 angactcttc tctgaagttg gcctggtggt atnggggang gcagcnttgc agttaatggc 540
 tnttccttaa 550

<210> 7443

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7443

gcataatacc aaagaattta ttgtaaatgt agtggcaaata acattcagaa taatcatcat 60
 taaaaaggaa ctagaaaatt ataatgttt aaagtatgtg cttttttccc accaccttta 120
 agttaatggc tagtaccac attttaagta atgaaatact taatgtgatg acccattttc 180
 agataatttc atgactgtat cttcatctta atttttaag cagttgacca tgaatttcag 240
 tttcagttat tctctgtttt tatcaattcc gtaatgatct gcagaatctt gtcattttca 300
 aggacatct ttggattttc aagctttttt cttaaaactg aatcaatgag aactctcagc 360
 tgcttgaaaa tgacagctat ctttacaggg gcctgaaaat agatccagcc atcaatagaa 420
 agaagacgtt ctcgggctga acttctatat caccaccaa aagtaaaact ggaaaaaggg 480
 gttattaagg gtagttttct tcaaatcact ttggcatacc ttaatcttct ccgggattaa 540
 gaancnttcn tga 553

<210> 7444

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7444

agtggagacg gggtttact gtgttagcca ggatggctct gatctcctcg tgagccgccc 60
 acctcagcct cccaaagtgc tgggattaca ggcgtgagca accacgccc gctgtcagac 120
 aaaattttta agaaaacaaa attttttcca gaatattaca ttacaaaaat caatgaataa 180
 atgaactaca ctgtaacttt aatacttatt ccatatgaaa aaccaaactg tttctggcaa 240
 tttgattgat ctcttgagag tctgcagtgc attcattcca tggttaaaac cgtgtgtagg 300
 cattgcgttg ctgctgctgc tgtaatggct gctgggcttg ctgctgttgt aagcgaattt 360
 gctgggaata agggctctcc agggatttta caaatatggg agttctggga ccagtcttcc 420
 atactatacc attggcatct ttcacagaag attccactgn aatgggtggg ggtncaggga 480
 tagccaaggt caaccgaaat tgagtcctga agnatcatta tganggtcaa cccttgnttc 540
 atntaatggg n 551

<210> 7445

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7445

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 gatgccggcg tctccttcag ccatcaggcc ccagcagtgc cccttgctcc tgtaccact 120
 ctggactctc gccggtaggg agggctgggc tgacagtgcc acgagtggga gaacaggggt 180
 cagggcagga cacagggttg ggatcagggc tgggcacagg atcagggtct gggctgggca 240
 caggatcaag gtctgggctg ggcacaaggt caggaccagc gtcgtgccc gcctttgggt 300
 cagaagattc cacaggagta gggctggggg tggatctgga gccggggaag ggtttggagc 360
 tgggatccgg cagagtgcc ggccanaac cagggtcagg gttgcggcca aaactgggtgc 420
 cagggtgaa gcccaagcca gaaccagca cagaaaccag atnaggaccc cagaanggaa 480
 aacttgcccg ggcttatnat ggattcaagg ctttaaggcaa gncccaaggc caancnggg 540
 gcctttttt 549

<210> 7446

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7446

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ccaaatgcaa agtaactgng ttttttattt ctatgaacaa taaaatactt tcataatttc   60
acatcccatt gcttttaaga gcacatatat taaaataaa ggaactccac aaacttttaa   120
gattagtatt tatcaacgct ttgtncaca tacncaaata ttttaatata anggtatctg   180
aaatgttatt catatatatt tagtactgtc atagtattaa ctaaaaagga tcttttaa   240
ttggtaaaaa ccgtatatatt tacaatcttt tatttacatc tgaaatatgc ttaaagtta   300
caaaaacatt cactttaacc tttaaaatat gngtactagg actggggtac tgaccataca   360
ataactgaca gcaaacttag ggtttgcat ttagctacac attcactgga atttcatggc   420
aaatattcaa cctggcttga tcaacactgg tcaaaggaaa aaaaaatttt nccaaatgng   480
ccaaattcaa anggtggcaa aaatcttgaa gcttgccgng ggaaaccaa anttttancc   540
ccctggaaac ct                                                    552

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<210> 7447

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7447

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cctcacatcc aaacagctac agcttcctc cttttgnggg gtcccaaac caagtctntt   60
ttcagganag cagacatgng cctccacaca gttctgaagt tctgggggct ccacattgtc   120
agctgggttg gggctctcca tgtgaggag gctgatggca ctcgcaggtt ttgcctcat   180
ctatgcnaaa aggcataaaa aatttcttcg gcatttggga cctcngtt ctgtagctcc   240
accagtcgct gcacagcctc aggcaagtcc cactcccaa ggcgacgatt atctcgagtc   300
cgaatgttca ctgttctctt actttgctct ttctggccaa ccacaaactg aaaattgtag   360
tgggcaagct gggcccggcg gattctccgg ctgaggggtc aatccaaaag tctgcatcca   420

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ggtcactgac caagtcctgg agccccgaag cttttgntgg gccctttttg gnggaatncc 480
 tttggttact tcccacaggg gttgaccncc acctggaacg gggaaagccc cagggggcat 540
 ttccccccc 549

<210> 7448

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7448

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 agcgtcatca agtttattac acaattttca acctatcaga aagacaaaca aatcacccgac 120
 aacaggggga cgggaccttg gcccttttga gggatgggtg tttttttcc ttttgctatc 180
 aggaaataaa actaaaaatg gtgtcattga gtaaaaacaa aacaaatggg gagaaaaaaa 240
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 gccagttggg tggggtgcc a tgttctgaaa tggaagtggg gattgggggtt gggggacagg 420
 ggaaaaaaag cttccaacct gtagcctntg gncccaaggg aatgngcctt tccaatcctg 480
 cgggggactt ccttaangac tgagggcttt nttanaaacn 520

<210> 7449

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7449

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 ctcgagctgc agtgccttcc attccacggc tctgagtcct tttccgctta tctgcaacct 180

cccgttgttt ctggagagca tccttgagac gcttgttggc agctgctgcc tcctccgttt 240
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 gtctaaactt ctcagcatct tctttcattt gacgcattaa ctgtaccgcg tggtttttca 420
 tcatcccgna tctcctgggt caantttgga aaacagtacg ctctggggat tccttttagtt 480
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 nttcctgggg a 551

<210> 7450

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7450

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 ttcccgagcaga actaatgaag taggtatctt cagtttttctg aggaccaggt ctcaaaaact 180
 caggcttagt tgtccgtcta tcatagaagt cccctggggg ttttccactt actgacctgg 240
 ccagaccaca gctaactggg ttgtcttttc caaaaaagtc agaagagaca gacaaacttt 300
 tcattacttc atctaaaaga ttctcttgac ttgaggactt tatctgtact gaggttaagct 360
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 ttgatcttgn gatgtcgact cttcaggggt tcaaaaattt tgggctggaa ccttgggctt 480
 ggaacnggcn ggctttttaag ncncggattg gacttgtncc ctgggtggac caancctaag 540
 ggna 544

<210> 7451

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7451

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aaatgctgat tctgtccagg gggctgctgt atgtgtagac tgggtggcagt cttggggact 180
gaggcctctt ggagagaagg gaagactgtc ggctcagaag tccatggagc tgtggggccag 240
gtagtccttg cgaccgatgt tgctgacctg cttgggtctgc atagcctcga gtttggggca 300
gtcagtgate cgatgacca ggcccccgca gaaggcacag ccgcgctctc ctccaatgtc 360
cagcatggac tcatccccgc aatgcagcac ctgcagcacg gcggaccttc tgcttggctt 420
ctagcaacan cgcttttgag gtccatcagc acttgactca tcacaccttt tgntgattaa 480
aggtaatggc cnatgcctgn gtttccgacg cccggtgcng gcaatccggg gacatagttt 540
taatctc 547

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<210> 7452

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7452

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gaggttttgc tatgctgaat actttattta ttttttatg taaacataat ttgctttata 60
ggcacaatat aacaaaagct ctaaagccac aaagacatta gacaatgttt cagttcactt 120
caatcaagct taaattacag agaagccttc acagttcctt taaggcagac tgagacattc 180
tttacacttc cttcagaaaa aacaatcaag agacaggaaa gaagggtgctt aaaatgagag 240
tacgttaaac aattaacttg cgtcccccg gttcttcatgg cagaaattgg tcttattggt 300
caaactctag ttttctcggt ctgtattctg aaagggtttt ctttaaccat ctggagtaat 360
ttgcgattac tggattaact ttgctagtta aataaaacca aaccaaaccc agatttggtg 420
ggggtggtgg gggagaagtg cttttttatg cctctcctct ggacataaca aaggcgatgg 480
tgaattctga atggtgctga gttcccaact ccccggggga aggagagcct aatatgggcc 540
anggtcttta cttcttcact ttgggaaaag ncattct 577

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<210> 7453

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7453

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ggttcattc cattttatta cagtcctgtc cttgagttcc anaatgaang gctatttaat   60
acacaacccc aaacactcct aaaanggatc ttgttaacat tcaaaagtct cccatttntt  120
tctcagtata ttaaatacaa nggaaaaaaaa aatnttaaaa aaaaaaaatc aataggttta  180
gttcacccca ggaaaagcac cttacaaca ggaaactaaa ttgtcaggaa tntgaccaaa  240
gacncaaagc agcagataan attcccgaca gaananagng actcccactg gaacataaat  300
agatccccc aaagtntaca tatttcacat gagng                                335
    
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<210> 7454

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7454

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ataataaagt ctgtttatta cagcaattaa cagagcagcg tttgccggca tgcttttcag   60
tggaaccag aaaagtgtt actccaggtg catagattcg ggaaaccatg caacttgagc  120
caaaatgaaa ccaattagag gcttagtaaa tgggttcag ccaccccagg aaacttaacc  180
atccacgagt cagttcagcc gaggtagaac ctcagtgcag gaatttagca tgatatagat  240
tgctacttta cagaattaat ccagacctgt cgccagggtt gtggtcttga ggacgtgaaa  300
tgtatccgcc caacacagcc acccaggtgc tgggttcaaa tctcgataaa ctacataggg  360
gtatataggt ggggaacgtt agcaccattg actcttaagg gtctcttgcc actgccatgg  420
angtggggac ataaggagag gactagaagc tgggccnaaa gggacnagac ngagaaagaa  480
ccgaaatcct tcnttaacct ggcttcaaaa nctggantgg aaagtggccg cttgataggg  540
    
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gtaagaggaa ttcnttttnac ctgganaaa

569

<210> 7455

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7455

gttttgagac agggctctggt tctgtcacc aggttgaaaa gcagtggggc gatctcagct 60
cacagcaacc tccgtctcct gtgctcaaac catcccgcca cctcgacctc ctgagtggct 120
ggaaccacag gcatgtgcca ccacccccag ctgatttttg tatttttttg gtagagacag 180
gatttcacca tgttgcccag gctggctctg aactcctgga cttgagtgat ccaccacct 240
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cttcatgaaa cttcatgttg gagtagaatg tttcttgatc tgagaagatt ttccacaga 360
tgctgcatga gcagccatcg tcctccttgt gtgaacgccg gacatggctg tcatgggcag 420
catgggatgc aaaagattta ccacaggtac ttgcatttga agggcttnn ccanaatgc 480
ttgcctgatg tgtgtncga atatgctgga agcttggac cttttagtcc aatncncaca 540
ctgggatggg ctggcttcca aagnggac 568

<210> 7456

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7456

ggttattgaa aaaaatagaa cagtccactg tccagcagag gctgcttcaa ctctattgct 60
cgcagggtc attctgcatg gatctgtgtt tcaggatgct gcaaggacaa ctctgcgggc 120
aggaaggccc cttgaccaa cgctgtagca taggtcctgc tctgtggatg gggaaagcca 180
gggggcacat acgtcccat gccgccccct ccaaagactc ctcgetggtg ctgaggcagg 240

gagtggtaat cttccaggtt atcatactgg gacacaacag tcacactgct ctggcgcttg 300
 ccgtgtgggtt ggtactggta cagcacactg gggtcctctt ccacgttctg ggtatgatgg 360
 agtttgaggc tatgactcct ctctggttta aggggtggga cgattgactg aatgangtgt 420
 tcttcctnct tgnaacaatc tctggaatgg ttctcttggg canaaagctt gctaaccaag 480
 gtcgttcac ttttgganaa ncttactttt tggggtaanc ttaaaaatct tgccggatcn 540
 ncatatttac tccaaagt 558

<210> 7457

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7457

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 aagccctana tccaactgaa ttgacctgg ctggaattct gctgtttcat gagccagcag 120
 ganatttgca agtncattaa cncagttttt aaagtagcac cttcaatata tganagctat 180
 ataaatttaa aaataataaa aaaccaacta atacctattc tgcttagnga cctgtcccta 240
 agngncatac attctttcct cctttgaata tgataccaag gaagaagaat caagcaaaag 300
 gggaaagtaa ttaaaaaaaaa atntntntca aagcctgttt ggtttcatgt ttcagggtct 360
 cctggccaaa attccccaaa gctgtgaaga cngaaaagt gngaactatt tcagaaaagt 420
 gcancagggt tctgaaggcg cccctacaat ggacttaaaa ctgggattac tttccaagan 480
 gaaaggattt ttttccatcc caattggatg aatggngttt ttaagaaaa aaaggatttt 540
 ttaccccaaa ctt 553

<210> 7458

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7458

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caagcctctc cttctcctct gtgtaccgct tcacctcagc ttctgtccga ttcttgccaa 60
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gggtggccac cacggcatcc gggcagctcg gtgggaagga gattctctgc tgttccgtct 180
ggattttgac ggtgggtgatt ctcagggaag gatactctgg ctccaaactc tccagctggt 240
ctcccagggtt ctctggacac tttatgcagg gctcatctgg ggtgggacct gggcctgagt 300
ctgccgggag ggcctcagtt gcatcgtcca ggcaggacaa cgtcggggag gaggcctggg 360
cctgtgcact gctggggcca tgcagaaagg acttgacagg tgtgaaggtc caggtaacac 420
cggcaaaatt ctctctcaat tggggcatct gcaacanggg gnggnttcct cggtaggttc 480
aaccgnaact tggaactttt gacaggncca cgtcgncata ccagttcttc ctggcggncc 540
t 541

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<210> 7459

<211> 392

<212> DNA

<213> Homo sapiens

<400> 7459

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aaaaaatgta tttgtgtttt gcaggttgga acgcaaacc agtctggcca cgtcccgtga 60
agttgtggac aaaatgtttc agtttctgtt cacctctgtg cgtgtgtgtg tatgtgttgt 120
gtgcatgtgt gtgtgtgtgg ggggggtggg gatggggtag gtatgtgctt ttggctcatg 180
tttgtgatga taactgaagt cttttgtggg tccgacctgt ttaggggtgt gggggaaagt 240
gaaggaagag aatgaagggt agtccccgcc gttgcaaacc ttcaccaaac cacgcggccc 300
anttttcgtg agtaccctgt tgtccanan aggaggaccc ancgtcctcg gctctgccgn 360
aggccttctt ggtctggngg gtactcnagg ca 392

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<210> 7460

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7460

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gagttgtaat aggatgaatg taattgtaga ataggattgc acaaatacag aagtcatgcc 60
ctaaaggcta cagcaacaaa ttaatacaaa taattctggc agtcttataa aattacatct 120
atctctgtag atatttcact tttgtgtcat caaaaacaca gtttgtaaaa atattttcaa 180
acttttttta aacttcaaca gtaatcaaag ttatctgact gcaagtaaca tcaaaatgct 240
agcaaataga ccattttaat cagttttatt gattcatgct tccagttctt attcagttaa 300
aaacaaggca cattaaatac atcctcttat tgctctataa atgcatgcag ctcatctctgt 360
gtatcaaaag taataaataa tggccataaa acaccaagac agttataaaa atgacaaccc 420
agcctcaaac atagtattta acagtccagt ctagaacaat aaccaacat gatncataaa 480
agtgccccat ntgaaaacat gccgngggga tatccctcta gcactgggct tacacttgct 540
ntttaaacc tagtagggct tttn 564

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<210> 7461

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7461

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ggagggaag gatgcacttt catgtttaac aaaataaatt aaatatacgg ggcttcagct 60
caaactctac ataaaattac agagatctgg ggccaccacg acagtggggt ggggggtggt 120
gtctggcctg gacggggtgt ggtcatcagc atggctgaaa gaccaggcgg gtcccgggcc 180
ccaggagaga ccacagtccc tgcaaccagc tcttccttcc atcattatta atattatctt 240
catttcttaa atataaatac caaggcccct tctctgtgtc agggggagaa tgcagtgggg 300
atgagccact agccatgggc tccagcctct caggcttggg gctgctgtgc ccccaacccc 360
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ggccagggga cagaggcggg gatggaggcg gggactgagg cggggacaga ggcggccana 480
gttgggggaa tgacggtgga ncagggaag nccctcataa ctatgagcct acgggacacg 540

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tacttgaagg cttnacggnc aaccttccaa aagg

574

<210> 7462

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7462

aacaggagaa aaagcaaaca aatttatttg atcataattg tatgtgagcc ctccagaatga 60
 agaccccaag atacagggga attgtccatt tttatgttta ggttcaacag attatggact 120
 gtgtagaaat atgattggac aagaagggtg tgatctaata gtaatagact gagaggggaa 180
 acccagcaag gctgtctaga ttcttcttgg cctctctgtg caggattcct tccttctggg 240
 cacggggtgg gaccctctct ggaatgggta tcttacgaca gtcaaacacg gtaggtcaga 300
 tcatttcttt ccaaccagtt ttacacaga aaggggaatg gggagtgaga ggactatattt 360
 taggttttat ggctggcttt gggtaaaacc ggttcttggt tctgatgacc tgccttgggg 420
 aagagggatt ctagtctcta tgggtagcct tgggggagaa tgaaaagcca gaaacaagag 480
 ggcaggaaaa ggtcagagag aaactttgct tctggggctg cttctgaggc ttccttttaa 540
 gntatcagaa atgatcaggg gcattctggc tccaggnaag gctcc 585

<210> 7463

<211> 435

<212> DNA

<213> Homo sapiens

<400> 7463

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 atttttctct ggtagctccc tgagctgagt tgctatgctg tcttctaact ttttgccctt 120
 tttaggctgt gtcccaagat tcagaagagc tggagaggga gttcctttga acttccattg 180
 ctcacaacaa tgactaagtg tgcaccaaag agaaagacct ggctgaggag gagagaggga 240

gagaccaaga aagagagaca cagagagggc aagaggcagc cagagtgcaa gagaccacag 300
aaggctccat ttctgcgggt gtccgcctgg acgggcccc atctcagngc cttccatccc 360
tcagtctggc cggttgggta tnagnccgga tgcccanacc cgngtggagg cacacgcatt 420
ccagnagcn cctta 435

<210> 7464

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7464

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actgggatgg aagcagatga accaccaat caaacagtac atgattactc ggtttccaga 120
aatctggata ccagaaaaac tcagtaggaa acatcaggat cacctagcca gaggttcctt 180
gtgattcttt gcttctctct ctctcttcc tcttccctgc taaggaaactt ctccaggggt 240
acaaatgttc aggatgggag aaggggaagt caggtccctt atctctaggg caaagaggag 300
tgctgtgaca ccacaccca gagacaacaa gatgatgtgg aggcacaggc ctgctcaata 360
aatagttccc agaagtctcc acagtgggat taatgggccc agggacgctg aactgcagga 420
gccaccttcc cgaggccagg ctgtggcctg ctgctacgt gttgcacacc agcacatctg 480
cnaagggtcc aggaggatct tgtgaanatc cacggcccaa ccaggtaggt ggtgaaaggc 540
tttgaggttt tcangnaagn gtggttttca aaacccgatg taaggccct 589

<210> 7465

<211> 596

<212> DNA

<213> Homo sapiens

<400> 7465

ccaatttgag atggagtctc actctgtcgc ctaggctgga gtgcagtggc acaatctcgg 60

ctcactgcaa cctctgcctc ccgggttcag gcgaatctcc tgccccagcc tcccagatag 120
ctgggactac aggaatgtgc caccacgccc ggctaattgt tgtattctta gaagagatgg 180
ggtttcacca tgttgggtag gctggtcgcg aactcctgac ctcaagtgat ccgcccaccc 240
cggcctccca aattgctggg attataggtg taagccactc tgcccagcca aaaagttaat 300
agaaatctta atcaaaatat aaatatacat tcataactgc catctacaat attctgtttt 360
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taaaactgat acatctttac agttgatgca catattagca cattcacaac ataaaaacaa 480
aaatttagan gttaaagttt gggaagtatt aaggttaagta cccatgttca aaagttaacc 540
ccgacctatn tgaaaagtaa ctaagttcca aacaatggcc gnntttnttt nnaana 596

<210> 7466

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7466

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caacctccat ctcccaggct caagcaattc tctgccttg gccccagag tagctgggat 120
tataagcacc tgccaccatg ccaggtaat ttttgcattg ttagtagaga tggggtttca 180
ccatgttggc caggctggtc tcaaactctt gacctcaggt gatttgccc ccttggcctc 240
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aaaaggctat attcctggct ctgngtttcc gagactgntt ttaatcccaa cttctctaca 480
tttagattaa aaaatattta ttcattggcaa tctggaacat aattactgna tcttaagttt 540
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<210> 7467

<211> 591

<212> DNA

<213> Homo sapiens

<400> 7467

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gatttttaaa aagccattta ttttaaaaaa ctggtttgtc aaatcacata catgagcaga   60
tacacaacta ccaaagtggc ctgtaataga caccagtggg gcggtcacca cacagtacct  120
gaaaaatata gctaaaaaag gaggagtctg ttgagtatth aatttcagat ctacttgact  180
ccttggtgaa tggctttaag ttagcatata gtgagtgaga ggtagagtcc caagtataat  240
agctgatgcc tcagggctcc atttaaaaac aaaacaaaaa caaaaccatt tctccctctg  300
cacaaggga gacctatcta tttttttttt cctttgcgaa aacagaagcc aagtttctct  360
tctcaaatgg ttcagcattc ccaatcaaaa agtggtgtgt ggtaacctag gtattgtgct  420
tgttgagcca tttaatthtc ctcaccttcc gattcggatt cttcttctgc atthttgnaac  480
cactcacaaa ttcttcatct ggncaagaaa aacactttgg cctttacaca tgggcttcct  540
tataccattt aanaatgnnt ctttggttaa aacataagtt tttaaagana c           591

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<210> 7468

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7468

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agtgaaga ttatgtatth caaataaaat tatacatgth ggaggcagaa cagaaccagg   60
ggtcttcagc agaggattth tcagtcagcc ttcacaggcc tcatgctgtg gctggcagat  120
actthccact gagcatagaa agthtcagga taacaagaaa cttgtthttt gcctccatga  180
actgggatgt cattattata gagaagatga ataathtaaa aagtgaagac tathcattca  240
aaatgctaga gtgacaaatt tactthtatga aathtaaaaca cagcattcat cctcgggaag  300
ctgcatatac athatggtag tagaaccaga ttaggtacat thcagcgttg aaaagattht  360
gtctaaaaat gaaaaggcag cthtcttaaa gaccagagth atagagtcac tctthgnatth  420
thcatctthn thtagtggcc aaagctcaac thggtthaat nggaccaaag ctcagthaact  480

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cactcagatt agaactataa ttctgtgaag ngtcaggacc ccngaaagtc ctcctgggac 540
 tttctatggg aagtttggcc aaattttccc atgganctgg gccnganggn gac 593

<210> 7469

<211> 586

<212> DNA

<213> Homo sapiens

<400> 7469

canattgtca aaagcaattt aatttttgga ggaaaaactg catacgagtc acaacttata 60
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 ttgccagccg ggagaccatg gaagggaact ggcgccactg cccccagctg cccttcccag 180
 gggcaacttc accaagatgt ggaaatcctg ggccccacccc acagtcagtc atcgctccat 240
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 cccaggtcc aggccagtcg ccccatcaag atcagacgta aggcattctc ccaccgtcgc 360
 tgtgctgcgg ggacttttcc aatccttcc tctctctgt ccagaggctg ccaggctgag 420
 ggggccaccg tccaggtgga acaggcacag gcatcgggga atcagatggt atcagtgggg 480
 atagggcaca agcactttct gggacatgt gaccagatc ttctttnggc agttcccact 540
 ggcttgnggn aagggtttt ataaangggg ccactttcan gaacat 586

<210> 7470

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7470

atttgttgaa ttcctaggtc ccacctnttt cactgcatca tcccagaatc ccatgttgga 60
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 aggaccagta tttatagagc cccaaacaga attcccaatg ctggtgtgca ggttggaatg 180

cgtattgtta cgagctctgt ttggttgctg gtgttgctgc tgctgctgct gctgcttttg 240
 catttgctg gcctcttcct gctggatctc cagaagagat ttcgtggtac ctgaagggtt 300
 gctgacattc ccccaacctg agagtttctg ctgttgctgc tgctgctgct gctgaagagc 360
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 tctagttttt ggatttcagc caacgacagc gtggcctggg actgacatgc tgggtggattg 480
 gactgnttgg ccccacgttg gaanaaaaaa ggaactttat ntgggcccac ttgtggtgct 540
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<210> 7471

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7471

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 ttgttggttt gcttgttttg ttttgagatg gagtctcgct ctgtcaccca ggctgaagtg 180
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 ttagtagaga taggggtttc accatgttgc ccaggctggt ctgaactcc tgacctcagg 360
 tgatctgccc acctnggcct cccaaagtgc tgggattaca ggcatgagct gctgccccag 420
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 acaaagtggc nctaccntn ttncan 507

<210> 7472

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7472

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tggttcgtaa cagcagtcctc attcccccg gaggaaggct cttgggcgtt ggagagtcctc 180
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tcgcgcacgc gcttgcctgt cgcgcgccc ggcccgggcg aacgcgcgct gccgngcctg 480
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<210> 7473

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7473

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agaagacagg aaaacaccag taatggtgaa ggtcttgaga aaaggacagg acccgagat 180
agcgagagat cagaggaggc cctaatttct ttcctcattt cctttccaaa tatcccaaatt 240
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caatgacaac cagaacttat tttttttgan atgggggtctc gttctgtcgc ccaggctgga 360
gtgcagtggg gcattcatgg ctcatcgag cctccaactc tcagtctcaa gcaaccctcc 420
tacgtcagtg tcctgagtag ctggaactac aggcatgcac caccacactt ggctcatttt 480
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ggcattacag gttt 554
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<210> 7474

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7474

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acaatcttct ttatctgtca ttttatttct gggctctttt ggctcttcct ttaatatgtc  180
ttggtttgtt ttgcttctct tagcttttct tactcctacc ttctacgtgc cttaatgtac  240
ttgtgaccat atctattttc attaagatat aatttagtat tcatatctgt gaagatttat  300
ctttttgttc aaattatttc ccaagttcag tcagttctct tctcatatat gcttgtagct  360
ttttcatttt tattctgagt ttttgaattt ctgatctctg gtgttctttt atatccacaa  420
ttatttattt tcaaattcat gttgaaagtg ttttaagttac agtttactgg ttcattgggcc  480
aagacagccn ttttctgctg gacaataatg gaaaaangnc nttaaaaagn aaggctaggg  540

```

<210> 7475

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7475

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cctgtcttct aattaaaaaa gacattcctg ggtgacaggc acagtgcagg agtgtgagct   60
atcgaaacaa cctgggtgaag tctcgcangg ccagacaaac ttgtttacat tcctcagcac  120
tagtgacttg cttgtggaag tctgtaagtt gtttgtgtgt cactgtgacg gctcccacgg  180
ttgtttcctt tggcaaacct ttttaaggaat tttctaacca tcgacaaaaa gtcgggtctgt  240
caacctgcat gatctcccag agcacttcag ccacatctgg tagggatatag ggggggaggc  300
aaaagcagca ggtgtgcagc agctggctga caagctgctg tccaagctgg ttcattcacct  360
gtccaatcag ttctttccgt aattcaaagt cttcttcatg atcattggct acccctgtat  420
gaatgaggtc tcgtagaaac ctcatgacac tacaattggg attcccgtgg nccaaggnan  480

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taaaagcnan ggncccctgt aaaaanggt

510

<210> 7476

<211> 523

<212> DNA

<213> Homo sapiens

<400> 7476

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 aggcaggtgg atcacttgag gtcaggagtt cgagaccagt ctagccaaca tgggtgaaacc 180
 ctgtgtctac taaaaatacc aaaaaaaact tagccgggtg tggtagcgagg cacctgtaat 240
 cccagctact ctggaggctg aggcaagaga atcgccctgaa cctgggagat ggaggttgca 300
 gtgagcagag attgngccac tacactccag cctgggcaac agagcaaagc ctcaaacaaa 360
 acgaaaacga aacaaaacaa atatagtact tcaitttaacc ctttcaagct tggagcctta 420
 nactaactga gaggggtanac tcaaagccgg ttggctcact cccaaatnca caggacantt 480
 tncattatnc accagttaaa ccctttgggg gcttgcttna agn 523

<210> 7477

<211> 482

<212> DNA

<213> Homo sapiens

<400> 7477

caggaacaag tttattgcag ggaacacact aacctctttc ataatagcca aaggcataaa 60
 aactacaaaa atatctggct ctcgagtgtg ggcagctcag tgtgggacct ggtctgagtc 120
 atgacttggg ctgccctgca ggccagaggc ccgggagctt tccggccact ccccagagag 180
 gtccgtggcg ctgaggggggt gagaagtgcc ttggctgctt ccacagcgtg aaggccaagg 240
 ctgaggtgga gctgggctgg agtggttcca gagaaggctt catcgaggcc cttcaaggct 300

gatggcagag ccagggtagg gagacgcctg gatgtggctg ccctggctca actggctcct 360
 ggaccaaggc cctaaccac cagttttttt ctccagaacc cctgctggct ctcccatagc 420
 caagtgggtg gagcanancc ctctgaggn tcccagngca nacagacctt cacccaacnc 480
 an 482

<210> 7478

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7478

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 gagaagcaag gctgagggtca ctggaaaggc ttagaatgaa gctgcccttg cctgttcctc 180
 ctgagaaccc agagcggcag tgggtccaggg cacaagcat aatgatctct catgaggatt 240
 cctatctgaa cacatcagaa gtcctatgaa catagatagt tctgttttag aatataaatg 300
 gtagtgactt cctgcgctcc tgaggcgggg caaaataatc cataaacaca taatccttct 360
 gggcaataat gtttctggac tcgccagcag agggctctag gaacagaggt gggggtagaa 420
 gtcggggaga aaaaagggtc tagagatggc atgtcttcag gggaactttg agaaatgncc 480
 cttggtcnac atttctaant gaccggaccc gngaaccnng gctgnaatgg catta 535

<210> 7479

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7479

aaatagaagg tgagtttatt tctccagtct tgaaattaac aattttcgag aaaacaaatt 60
 attagaataa ctggtggagt cacagacata tttctagctc cattaggtca aaggaaagga 120

aagaggacaa gggtagaaag gagacaagcc ctctaagaaa ctgtccattc agtctgtctg 180
 cagtcaatat gaagagatag cctttggagc tacagaaaat attacattga agtggattat 240
 gcttgctgtt aaagaagctg gtccagccga gcagcagcag aagacgaaga ctcaaagtgc 300
 catgtagagc atcatgggtcc ctgaccaaag agacttcttc tggttcctct tgctctcctc 360
 accaagagca cagatgtgcc cagcagcaat atgacagcaa atgtctctat ggcttcggga 420
 tgaaaatgtc cacacacttt aagacccgag aagaaatggg gagtgtcca cacccaanga 480
 actgaagctn gggaaagacc ggtttcttgg ggttctggca tanaagngga ctggtgctna 540
 anccactggg ctnttcca 558

<210> 7480

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7480

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 atttgaaaaa aacaaaataa aaacaaaac aaaaaaacca aacacaaaga gagcagtgtt 120
 gggccagcag taccatcagc cctggccctt aggccagccc agtccacggg ctctgagtgt 180
 ggaggctgcg tagcaccagg aagcggtctt gctgagggtca aggggcccc gcacagtgtg 240
 gcatccgttc agcttttggg tggaccagga tgggtggggag cacagagggt cttggacggg 300
 taggtggggc acacggaggg aaaaattata cgccttcagc tggcagtcag ggcctcagga 360
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 tgaggctgaa gttgggtccag ttcacagcaa ctttctgacg agtctgcttt gcagaatcca 480
 aacagaacct tttaaagtac ttcaccttn ggcaggctta ttcattttca cccgnncatg 540
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<210> 7481

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7481

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ctaaagaagt tatcactgac tgcaaccaa cttttgttc cattcaacat acatatcaag 60
ctccttttga gatatgctag gctgaatctt gcagaaagca tttcaaagt cttgatatgt 120
aacgggcctc aactggctgg gcataatggc tgaaaggtct gtggctggca tggcatggag 180
ggggcccacc actgcttcct gacacaaatg agccacatct agtccagaaa agccttctgt 240
gcgctggacg agcagtgcaa actccttgct attgagacag taattgtgct gtgagagcag 300
ttgtactatt atctggtgcc tcgctgtgct gtcaggaagt gggattaaaa gtcgtttcat 360
gaagtacctc cgaagggatt catctatttc ttctggttta ctggtggcac aaattactac 420
gatttggccc tcagcccgaa gttagtacag tgtccagttg catcagaaat tcggtctcat 480
ccgactgact ggctatggtc ctcantcctt gaganganag aacctggcaa tggccttacc 540
aaaatcnccg nggntgg                                     557

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<210> 7482

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7482

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ggaggatcag gtttaatggt cactatgagg gtatcgtaca tcgttccaag cccggccccc 60
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aagggggggc tgccccctcg cccagctat atacacgaca gcccatcctg ctggccgtgg 180
acaaaagctg ggagctcctg tgcccagtcg ggagccccta cagtccacca gctgcgcggc 240
cggttccagg ggcccactgt ggtgccagcg agtttctcaa aaccaggggc ccagccccag 300
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aggccccacc cagagccttc tctgaaggag gggacgctgn gcccttctt tctgntgcca 480
nantggccta acgggttccg cgccggttga ggctaagtaa gcanggattg ggggtggcaa 540

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aaagaat

547

<210> 7483

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7483

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gttaccacca cttttgccc aagtictaag gaaagttctg aaacttagtg gtggtgtgtt 180
tgtactcagc aagctccaga cagtctgagt tgctcattcc atgaacagaa gcttgaaaat 240
gcccttacag ttgagatata aacgagggaa gaggtgaagc tttcaggaag ccagagagcc 300
cctgccggtc aggtttcctg aggaaggcag gggtgctcta tgctcatcag tcattcaagc 360
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atcccaggaa gttaaagccc aaccagccaa ccaccttnac atccttctca tctagtagag 480
tcattcaaaa ccgcaagngg ngcttttgag gcanccttagg aaggcnttng ggggctttct 540
aaaggggan 549
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<210> 7484

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7484

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cttcatcaaa ctcatcaaat ctgtagctta tacatttctt tgttcttggt gacctccttt 180
caagcaagtt tgctttggat ttttttgaat ctttttctt ttcttcttga tcttcanaaa 240
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agtcctggctc ttgtggagga atgatgtttt caatactgat accaacatac accaagcggt 300
 cttttcttcg ttcggcacgc tctttcttct ttaaggcaac atccaaatcc tgcaactggt 360
 cctctaattt ttcacagagc agtttatgtt ggcaagggtg gcagaacat tctccatctg 420
 ggatgatcat cagaggaggg cgaaggcagg cagtatggta tccactatcg caagagtcac 480
 ncngaagaat tagctcagga tggtttgaa aggcncattt tttgcatggg tcaacatac 540
 tgctangatg gggt 554

<210> 7485

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7485

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 tttcaaagca accaccacga caaaggaagc atctaattag tccgttttct tctgatccaa 180
 gaatgctgaa catttactgt cccatctgta gttgtatcag cagtgtaatg aacacagttt 240
 atattactta actattcttt gaactccaag aactgttgaa gtcttttctg atgttctgca 300
 gatgcttgca cagcattcag atgttcacca aatgtagtag ttattcgata gatggcagtt 360
 ttcagtgatg ctctgaatgc aaatcttaat gttttatatg aagtgtccac aaggcttcct 420
 gaaatccggg gtggtttact ggaagcatga ggaagcttaa aggacttgnc gactggctnt 480
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 ccnctgnaaa ggagc 555

<210> 7486

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7486

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agtactcaaa caacttttatt tcactagcca tgagcaaaaa gttgaccggc tccaggggat   60
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gtcctcacct ggctggggaa catggttctg agaggcccct tgatctgccc tggggacatg  240
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aacgtgccta cagccaaatc tgtgaccatt acctgaaaag caggacaacc aaaagtaatc  480
aggaaaggga gaanatgtgg gctggaatga nattggacca ggagaanacn gaattaaggc  540
cggaacacng aaacccccca                                     559

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<210> 7487

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7487

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aatttaccct ttttattttt tacatattct cctggttatt tttactgcc aatccattat   60
gttgacaggc caatcatttt aaaatatatt ccaaatgca atcatgaaa ataaaaatat  120
gtcattgaat gagaacttct ttgtgggcca tctcccgcta cactgactga gaactgactg  180
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cttctgctcc tattaatcca ggacaattaa agaaagcatc aagtttgcaa tactangnct  480
tttaaattct gncgaatcaa agtcttttgc ttactaaagn acttaagaaa gtgaagctat  540
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<210> 7488

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7488

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acattaccag tcaagtatat acaaaattga agtatgccat tcaagccaga ttgtgatttt 180
aaaataacaa acctctaaat agctaagtaa tgtacaatgt gtaaaattcc aattaaacac 240
aggtataaat cttatataaa tattggccct ataataccga gcgatattta caagcaaaca 300
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caaatgcacg tcctgcattt ctatacacia aatgtatttg gaacccttta aatgtgggcc 480
attanggaca ggccttttta tggnatcttg gaaatcttca atggctgntg gaatacctgg 540
tggccccna aatcn 555
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<210> 7489

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7489

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tgcacagcgc gcttcccagc gtcggaaaca ctgctctcag ggcggggcac agcgggaaggg 180
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gtttctgagg caacgaatca ctggcacgga agcttttccct ggcgcgtttc cagagaacca 360
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tgcgaactac aatgtccctc accagaattc aacgtggcag agtccctgca tctgctccct 420
 gcctggcctg ggctcccaca tccacagaag ggccacaagc cgggagcttt cggagtcacc 480
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 ttgaaggcca agganccct 559

<210> 7490

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7490

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 gttggcgtgc aacancggcg ccacgcgggt cactggttg cactgcggct tgtangcttc 480
 acgccaaca cgtnaaacgc ttcatggact catggtataa tcgttgnccc natggagtaa 540
 aancnc 546

<210> 7491

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7491

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tccaatcagg caacacagac tccgagctgc ttttggtttt ggtccctgga ggtgtatatg 120
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 ggncctttttg aggaatgctg agtatgccaa gggtagaact ttcgtaccta ngtaggtacc 480
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 gtnacc 546

<210> 7492

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7492

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 acttaaaaga atacaacttg aacaggactg ttttactaaa atggtcttgt tgcaaaataa 180
 taacaaatac cacagagagc cctacatgag aaagccatgt gccttcaagc ctggggatga 240
 ggactctagt tctcaaattc ttagaacata gcacatgatt ctccaggga gagaggctgg 300
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 cacacatgga atgaggccac caagcaagtc acaccgccc ctgttcccat gaaccccata 420
 agagagaagt gctctctgaa gtctacagac ttggcaggga ccactggacc atggatagct 480
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<210> 7493

<211> 530

<212> DNA

<213> Homo sapiens

<400> 7493

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gatgctcact aattgcggtt atgttttctg ttaagggttag ttgtncacgc tcattctcta  180
aagtttcgtt tagtttttca tctgctgtt gcctgngttt tcccaatatg aaataaaang  240
gggttggtggg aagactttct tctgctagca gctgtttgct tgttggtgtg agtttttctt  300
ctggagactt tgtactgaat gtcaataaac tctgngattt tgtaggaag taaaactggg  360
atctatttag ccactggtaa gcttctgagg tgaaggattc agggacatnt cgnggaacaa  420
acactcccca ctggactttc tcttgagan cctttttgaa atncaagggc cttggctcac  480
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<210> 7494

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7494

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aggacaagga agacaagctc ctctggccct aggaacaaaa cacatttact ccttcaaaga  180
agcagatgat ctgaataccc tctggagact gaatctgccc atacagcccc tggagccaat  240
gggcagacag tactggcatc tggcacaaaa gggaattcag acccagaaca gaagcagcaa  300
aatattttta aaatagtaaa ttgttcctgg actcacaat cattgttttt aagggaaggt  360
gcatgcccaa tataagtact ggggcttcct aagagagctg cataggatta cacagctgcc  420
tcctgcttaa tggagncct acatcccttt gacacttaac ttgggtagga anaggagcct  480
tttggtcttg tctgggttct ganagctntg canctggagg cncagnaaac tgaggttg 538
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<210> 7495

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7495

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aggcaggcag aggggaggca ggaggccaca gagcagccgg cccacagtg agcacagcaa 180
gtgtcctggg ccacctcctt gagtcttcag ttcccttctt agcacctgca gtccagctgc 240
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tcatcaatgg ggtacatttt gaagagcagc aggccagca ggatgagaac tatgggagcc 480
atggtcacga gcatgttcag ngnaaacttg aacgtttccg nttnaacan nccccggtct 540
ngga 544

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<210> 7496

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7496

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agatttcgtg ccagagaaaag tctcagcatt tccaccttgg tggctcttat gtcacatcc 180
tggagctgct cggatcaga ttctccatgc acaggtcttc ttgacgtcaa gtcctccaga 240
caccgcatca actcataagt ctgttctgct gagaaaatca cctgtttctg ttccaaaagg 300

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ggcaaggcat ctgtcagcag agtcatccag aaagaccgag gggcaatccg agacgtcatc 360
aaggacagaa ggagagaagc tgcgtcggca aaacgtttct ccccgtagat acggtggaac 420
tcgcgatact ttcccaggaa tgtcagtcgg tctactgagca tcatggctgg ccccagggtg 480
ncaatgagat ccaaatacaga aaagcagcct ngcttacagn aatcctgang gacctgtctg 540
acacggcgt 549

<210> 7497

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7497

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cgggtggcag ccataatccc caaagatggc cccaccccca agattccaaa gaagctagtg 180
gtggtggaag caaaaggaat gcagcaaggt cagggtttca ttgtccaagc cggcctgaca 240
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gcccagaaag atgccacctt cacagagcca gtgctgtcgt ctatatcatt ttgattagt 420
tgattttata agataaaagt aattttaata aagaaaaaat tcaacattga aggcttaaac 480
gttctttggg gtactgggaa agggaaattt ccactttttt ctcccacctt cctggnatta 540
aangtccggg gggggng 557

<210> 7498

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7498

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 acaatgtgct ttaaccgagt gagcaccttc cccttcatct caggtgatgt ttcctggcag 180
 aaggcattta caatctctcg gaaccagttg agagtaagaa atatgagaga acacatgaat 240
 gaacgctctt tagcagacat ggactccaac ttctctccag gctccaggtc agttaggaat 300
 ataggacaat ctagtagacc atcaatctcc tccaagtttc cgttatgctg tctctccaca 360
 caaagtctca gtaaccggaa atacggagcc aggcacagcg gagacaccaa tttttggcct 420
 gattcctgng aggtcaccgg acccccatct tttgcaaagt cctgagaaaa cagcagcggc 480
 aggaaggntt atggcaatcc catcctgagg gcggattctt ccagtccgac aaggggnttc 540
 caaggaatgg aaagn 555

<210> 7499

<211> 395

<212> DNA

<213> Homo sapiens

<400> 7499

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 tcaaatgctc taataaatac atatataaca aaagtgaaaa aagtaactat agtgagatga 180
 ggttcttcca aaaaaattct gtcttgtaa gcattctagg agtctgagcc aaagaaacag 240
 cgccattttg ttcattcctc cccctgccc aeggacacttc ctttgagcca cctctatacc 300
 cagctaactc tggatttccc tctaggggaag gtctctgnatc agccctggga ctngccagng 360
 cctnagtaaa cagacgggnt ntgttaaaaa gntaa 395

<210> 7500

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7500

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acatttccaa ggtctttaca ataagttata gcgtccaggt ccaacacagc atatttgcat 180
acaaagccac tgatgtgaac actgaaagga atctgtcctg taggtctttc atcttgattt 240
aataaagttt gtncagtatc aaataatata aaaagtctaa aaaacacaat gagcttttat 300
gtttataaat tatngTTTT ataccataaa aaaagtcaaa agtgcagttt aaaaaaaagt 360
ggaagttggt attcttgata aaagctagaa aaatgtcatg tcccagttaa aaagcaatct 420
caaggntcat cccatttcta aggaanttta cctggnatnt aacccttggg taccatatgc 480
tggaagccaa anccaccgaa tgggagcttt gnacaatnt 519
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<210> 7501

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7501

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cacatcagtg acagtttatt tctcaaagaa aaaaagagat aacatttgaa taaaaatgca 60
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gaattctttc acaaagaaca gatccacagc caatttcagt cacttgatgat gctgaatcag 180
caccactgg tagcaaccag gatccttctg tacagtcacg ggcttgagca ggtgccataa 240
agcatctggt taagttaaac agtcaataat gtttactgac tgcagtacat tcccaccccc 300
caaaaaaata agtgcaaaat caacttctaa gctcaagagc tcaaacagat caaagctttg 360
gtatatactg gaggttggtt tgggtgataac caaagcctag taagattctc tgctcanggg 420
gttcgcccc aaagaaaaa cacctggtn ccaaagctta acccctttt aaataaggna 480
ctgtccaagg agaccaagnc ntggattccc ttaaccaagg gttatggttc ctaggcanaa 540
gtttgaagcc ccacttaaac ccn 563
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<210> 7502

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7502

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gcagcgcctc atggccaaat cattagagtt ttacatctgg gttgcaaag acactttgat 120
tggatgtaat gttcaaagtg ccttccccac ggcgtctccg gcaagccttc tgcggagagg 180
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gcacggcaaa gatgtgctgc tgcaacttgt tggcctggac gaagactgtg aaacacacgg 360
ggcatttgaa ggtgcccgcc catgccctcg aactgtgctc aatgaggtga cagaagagct 420
tggcccgggg aagtcgaaca tctgggtgca caagttacac tcgnggggtga atgccttcct 480
aaacatgggg gttggcaacc gnggantng atctctntnt tggcttcna aggcatt 536
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<210> 7503

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7503

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aattttttgt tggcttactt gttggtctgt gatcggtgtt gtcaggcagc tgcactccca 120
tgctttgtaa aagattggaa gcaggctcctg ccagtccagc ttgggagcta taggattcca 180
atatatttga aaccaggttc aggtctacat ctactggtgc cataacagat tctcccgtac 240
cagaatcttc ctcatctgaa ttgttatcgg tagtctggga tacaggttcc acttggttcc 300
tagtggtgaa acttttgctg atgcagggtg gtgctagttc ctgggccatc tgggccatgt 360
atgacttgag attatcaagt gtccctttca gggaagcctc ttcgccaggt tcgtgtgttt 420
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caaaagtcca agcatcatca ctatctaaac attcaaagnc ttcacatcc agatcatcag 480
aatctgactc attaggcctt ggcctaaaa cttatcaaaa taattangaa aaaaatctgc 540
ttcaaanggg atnggg 556

<210> 7504

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7504

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caaagccatc ctggcctgcg ggttgacaa gcttgatcta aagcttttcc caagttcctc 120
acagtattag tttcctaggg ttgctgtaca aaataacaga ctgaatgatt taaccaagag 180
aaatttattg cctcacagtt ctggagcctg gaagtgaat atcaagggtg agacagggtt 240
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atggccatct tctggtggat ccacacagtc ttctccatgt gtatccttcc ttcagtttcc 360
cttataggga caccagtgat gtcagattag gggatcgaac ccaacaacct cattttgaag 420
ttactcacct ggttggaac cctatgtcca aatacagtta tagtggtgaag gaactaggac 480
ntaaggctta ccaaattatt gagtggggca tnattccana ccattccatt tnaaattgca 540
ngggttttct tcaangngaa gtcac 565

<210> 7505

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7505

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ccccctaac ctaagcaagt ggagctgcca ctacctaat tatctattgt ttgctaaga 120

ggtagataaa acaaaagtga aatggggctt ctatgaggag gtccattaga gggtgggtgg 180
 ggaggggctg ggatcgccca gtggaactcc cccaactaca aagacggcct gaatgagtcc 240
 aaggaccgcg ccctcagact cccccagggc aaaggatcct gcttcacctc ttctccttct 300
 agagccaact gggcccccat tgaagactga aaaaggggccc aatggaggtg taggatctca 360
 aagaaaccct gttgaagagg tctcagctct ggtttcccca ggcttcctga ctttggggct 420
 gngtggnggg ttncaggcca agccccaagg ctnacttcca accagcccct ntanaaggga 480
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<210> 7506

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7506

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 agagagtgga atataaaaag cttaattgtg ttaatacatg gaagacaaca gttctcagtc 180
 aacctagcca caattttctg tcttggccat ctgtaagaaa tgactacgtt tgaaattcaa 240
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 aaaaacaaat ggcaatagtc tacatatcta aacacttgac aattggggaa ctgtcccaca 360
 gtgatatgct caaggccagt agcacctatt tataatttgg catgtactgc ttgaaggggc 420
 aacaggaccc ggagctaaaa tattcaatta taaagatata atacatgat gaatcagaca 480
 aaagtagaca tttatgatnc ccnttaagg attctttttn gnactgggct gactttaaga 540
 aaatatattg ggaccttaa 559

<210> 7507

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7507

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aacagttctc tgnntttattg caatacagca aagtctgggt aatattaagn gatatacaaca 60
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ngcaaaaanaa tccacatcat tgtttggtag cagaggatct cttataaagt tccctaanac 180
actgagggca taaaaccaa caaaataaaa taaggagtga taggctaaag cagtatcttc 240
ccctccatcc acatttgnca gcattatatt ctaacaaaaa aatgatcaca ccaggccatg 300
caaaactgnc aatattacaa cgagaaaaac ctaaaaaaat ttataaaatg aatgatatta 360
cactatcaaa taaaaagaca agtcattttg ntttcatgag atttcaaggg tgatttgagt 420
cagcttnccc cggaactggc acgngtcct gtgtggggga ngggcccaac gtgcttgcan 480
tgctgggggg caaggcttac actccttatn ttgccaaagg cccaagaaa tntggacttg 540
gtaaca 546

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<210> 7508

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7508

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gagatggagt ttcacacttg ttgcccaggc tggagtgcaa tggcgtgatc ttggctcact 60
gcaacctccg cctcccagg tcaaccgatt cttctgcctc agcctcctga gtagctggga 120
ttacaggcat gcgccaccac gccatctaa ttttgtattt ttagtagaga cagggtttct 180
ccatgttggt caggctggtc ttgaactcct cacctcaggc gatccgcccc cctcggcctc 240
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ggctctcttt ataaaggcac taatcccatt catgagggtc ctgttgctg acctaattgc 360
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tctagggggg cctaagcatt tacaccatag caagggccct gggtctcatc tgaaangcag 480
aaggagcant gggcccttag gcaacctntt aatggaaaga ccttctgaga agaacttgga 540
aataaggatg 550

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<210> 7509

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7509

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gcatttgttt ctttatttaa aaaaatcatc tgggggcatg gtctgaggag gacacccctc 60
ccatggcttt ggggaggacg caggttccag gagtcacagg gcagaaacac gcggggtggg 120
tgggggctg gccggagtgg ggaggggctg tgccccagc acctgggggt ggctcccacg 180
gcaccagggt ggctagggca acagtatgta caggcgagca gtgctcctgg acccggtcgg 240
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ggcctatccg gcaggggccc tccccacact gaatcctgcg tgcgcagaac ttaagccggc 480
attcaagcan tggggaacgc cccgcaagct tggctttggt ggnctcggca cntnacaagt 540
ggggcccttt tctaa 555
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<210> 7510

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7510

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atttcgctgc acagtccatt cttttaataa taaatttcta cgtttcattc tctctggatt 120
acagctccat gtgctgggca aaatctcatt gactctttct tacttaagg agagccatcc 180
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aaatgggtga tgtcctatca cactaaacat tgattggagt ggtagagatc ttaaagcagt 360
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 ctggaaaaca ccaacgataa gggctctgccg ggatgggatg actgcctttt tgcatttttg 480
 gcttaagtca agtgggacaa aaacattctg gncctggaact ttcttctctc tctctttcct 540
 ctctcttctt tcctctt 557

<210> 7511

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7511

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 gcagccgtct tgttgatgtc ccctatgtca tccagagggc aggagcgggc agctctctac 180
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 gcttcttttt ctgggctcca gccagatctc tgggggagga gttgttggca gtggtgatgg 360
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 caagactgnc tctctcaggg ttgcttgtga gaatcattta ngaactgctg cagtggtttt 480
 gatgtttctg aacccttccc anaaaggccc agaagtgggn aattgaacca ngaagtccaa 540
 ggaaagaccc cnaatctt 558

<210> 7512

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7512

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 gatggaacag cgtanaggcc atccgtttcc aggccattct ganatccaag atgccaactc 180
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 cctgngatgg ctcttctggt atccatatct tatacncaac acctatccgt aggaagaact 360
 tccgcanaac tgctcggagc tcagggatca ggtcaaactg cataatttca cacaagtagg 420
 ggtagtacat tgaagcatgt gctttgaact ttcattcatta atttganggg tttagttana 480
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<210> 7513

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7513

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 tagtacattt ccccgctgat aacagcgcca tcttccttcg acccccanac caagggatca 120
 aagctactgc tcaatcgagt ttgacatcag ctaccgactt ttaaggaatc tanaacaaag 180
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 gctttgctct gttgtcacct cccgcacagt gtcgggacac tgaccggaag ccaaacctgt 420
 gcctggtggc cacagacaag acacacggat atccgtgaac cttgctgtgg ccctnccgag 480
 gccagngccc aactggtgga cagccaagcc ggacaattnt gtntgggcn aaattgttaa 540

<210> 7514

<211> 544

<212> DNA

<213> Homo sapiens

<400> 7514

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gtaatcaagc catttggtga aaatctgtaa ttcacaagtc aaataacaca gaacagagac   60
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tgctgatctg ttggcttctc agtttatagc attcagcccc ctggctcctc agcagctcct  180
tctcttcggc tgtgtctcga gctttcagct gcgagaagtg ggcaggagag gcgatgagat  240
catattgttg gtccagatac cgcaggtaga tgagcatgtg cagggcatag gccaacacca  300
gcagcaggat cagggacatt gccaggccga tcagaaaagc tggcgagaag gaggaggcgc  360
agtcttgggc ttigttaa at cgtccccct tgatggcaaa accttgatc tggaaatcaa  420
taaaagtgac ctcccacagg ctcgacccat catccgtgtc gctgggcanc aaganggcct  480
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ntnc                                                                    544

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<210> 7515

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7515

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gcicctcgaa tgacaatcag ttttattgca tgagttatgg tgtccaaatg agttaatttg   60
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tggatagatg atttaagcct caaaaacgca agtgattttt tggggtgcac gcagganagg  180
gcggatctgg ggtgtggtca gcagatgacc agccgtggcc ttgaaggcag tttccagtct  240
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atttaagaaa tcctgattct ccgtgttctg ccaggaggga tactgcagaa gagtggactg  360
gtgtggccat tatttcagca tcttcacat gtacgggcct tgtaatctgt acccgatctt  420
tctataataa ttcttggtgc cgaccctga tatcacaagc ganttttcca gaccatgggt  480

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cttctctagc tattctttct gnttcctcat taacagcatg ncnatcctg agcttgaaat 540
taataggatc ccggctg 557

<210> 7516

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7516

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gtggtgtggg atacaggaga agggcaaagg gagctcataa atagggccca gcctggctct 180
gggttcaaag gtggaggttc caggatggca caggctgtga gggctaggca gctgaggagg 240
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agaagcagtc cttgtttgtc atcaggtgct ggttgataca ggctttgcag gacttgtggc 360
cacagggtg gaacacagca nagatggggt ggcatagcag atggggcaaa ggtcctnctc 420
actggtgggc anggaagcaa ctgcttgctt gggcanatgc anaggtcaag tgccccagca 480
tctggtncac ttgggccact tatcggcact tgatataatc cccatactnt tcagggaaaa 540
accctttccg gcaagggtt gcaaa 565

<210> 7517

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7517

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aaaacaaaaa gtagaaattt taaactttgt tatagcttta aaacattaac gtctgataca 180

attagaaatc acattcagat ctcaaactct taaaaaaaaag tatggctcct taaaaaaaaata 240
 ctgnatccca cttgaaatga aaacacaggt cgcctgctgt tgacatgggt ggggctgtcc 300
 cttcctctgg tgtcgtgctg gccccctccc ggtgctgggg tgcagccaca cccccccgcc 360
 gggcgccac cttcactcct ccagggtgag acacgcaagg tgacatgacc agaacttcac 420
 atccaatgct ctagaactga catctccact tcataggaca ctgntgcttt ttaaagcact 480
 gattatcaaa catgttggga aaaatcttta gacaggcgcc ctggtaaaaa aaaaatcccc 540
 cccncccccn cncncnc 557

<210> 7518

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7518

ctcgtgttgc aattttactg taagtttgaa actgtcaata caaaaagtta caaagaattg 60
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 ggattcagct cgtctcgggg cgganccagg cgtcacggcc tccggattaa agtatcccc 180
 cggggagtgt gctctgtgaa tctgggtggg gagggcgctc ggtgctgttc ccagcaaccc 240
 accaccctcc tcctagnct tgcaanaata ggcaggaac tcagctgact gcatcanaac 300
 ctganaagct ggaggctgaa gccagacacc agcctntcag gacttgggga cactatgagc 360
 ccactcagcc ccacaggtct gaatctttgg ggaggggagg gttccagtct ggactntgcc 420
 cttgaccatn agggcagggg gatcacactg gctatcgga tnatctttta gccagttttt 480
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 attttt 546

<210> 7519

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7519

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cgcatcagca tccttgctgc tgccgatgct ggaatggcta gtgatgctgt tgaggcttga 60
gatgctatct gaggagtttt gtctcttgat ccgaagtict ttgggtgtgg tttctgaggc 120
attaagggtc ccctgaatga ctgcctgggc ctcanagtgc tttttcttca naaagtctat 180
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agaaagctga nacgtcaagg tggccacttt ttcctgggat aattccagtt ccctacgaag 360
cttccggatt tgtgaggagt aggtggagga ggcactggag gccagggaca gcactgagcc 420
cgtgaacatc gtccgngggg tctcggaagg atcctgaccg aatcattccc ttgggtctct 480
cggcaaggac aaggtgctcc catttgggaa ccnttgaca gcttgaaggc cgcttningt 540
nggatcttn tggaacc 557
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<210> 7520

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7520

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gccagcaacc ggcccggcgc ggtggctcac acctataatc ccagcacttt gggaggccga 120
ggtgggtgga tcacgaggtc aggagatcga gaccatcctg gctaacacgg tcaaacccca 180
tctctactaa aaatacaaag aattagccag gcgtggtagt ggggtgcctgt agtcccagct 240
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cagcctgggc aacaagagtg aaactccgtc taaaacaaac aaaaaaaaag acttcacca 360
actaactgtg cttgtgtaga aagaggttgc atccctgttc cagtcattgg catgaggaac 420
agctatgaga anggccctaa gcacagcatg gtttgcagta aggaggcana cccagggaga 480
aagaagtnaa catcatcttc tgggctttgg ttcaaaatca caaggngtgg gccttaancc 540
tgttgcttgc caagtct 557
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<210> 7521

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7521

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cttgaacatc aaagatgttt gttattgcag ccaggagaca atgccataaa atgctaacaa   60
aaaaaagtta tactgttttc cttaaagtca gtaaattgca taaaagtact ctgagcattt  120
ttggaagaaa ggcaccagat aagtccaaaa tcttattgct actaggatca tacagggtca  180
cagactatgg cactctgttc agccaggaga ctaagtctca gcaagtcagt ctctgacctt  240
gaggcttaaa gagcaaggaa ggaaaatgtc aataaaacag agccctgtat cacagattaa  300
actggagtga aaatgatttc cagttttatg tcaaagtaga agctggttcc taggacgctg  360
gcgctatttt agatggcact ctgntttctt tggcccatc ttcattgatcc ggatcatgna  420
ttctacttgg gnggtacctg ggcttctcaa gtaaattggag cacttttcga anggtctctt  480
tgggtctctn ccactntgat catctggaaa atgccccaca ggcaccccggt tngccttncc  540
aaaatcaggg ttaggatcca ncctttna                                     568
    
```

<210> 7522

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7522

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aacatcagaa ttcacattta tttcaaaaac tcggcatgga ctctcagttc aggctgctgt   60
aacagaaagc cgtagcctga aaggcttaaa caacaaacat ttatttctta cagttctgga  120
agctgggaag tctcaagggtg ccaacagttt catttcttgg tgagggtctt cttccggggc  180
tgcagacggc tgtcttctca ctgtgtcctc acatgggtgga gagagagatc atctctctgg  240
tgtctctcct tataaagcac taatcccatc catcagggtt ccaccctcat aacctaatca  300
    
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cctctccaag accccacccc caataccatc cctttgggga ttagggcttc aacgtgaatt 360
 gggagcatat gaacattcac cccttagctg actccaccca tgtcaactag ataggacaca 420
 cngtgaagta gtgaccacat cttacacgtt tttagccact gctgatgtcc gacangnctg 480
 ggtttgggac cagtgtgtac cagcaagcat ggctgtgggg canctgtacc tctgaggaan 540
 aaatgggtcc 549

<210> 7523

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7523

gaatcgaaag tttcctttat taagttattt taccaagtga gcttgtatca aggctgagct 60
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 ttaaatcaga ctgaccttcc acaatatgga ataaatcagg tggtttaact ctactgacta 180
 aagagtgttt tccccaaccc tgagccaggc ggctttgtcc gtgtcgctca gctgccggct 240
 cactgaaggg tggatcatgga agagcaggcc gccgtcgggc ggtgactgat tacaatcatt 300
 tgttgtgatg catcgcaaat taaagggaca agcccagcca agctgctccg ctcaaagagt 360
 gcgcgtcccg ctctgcaatt actgatgtgc acaaaggacc cagggaccac ttaaaacaag 420
 gggaggactg agtccacgca gggatgaacc acaggccaag tccccacgtg cttgacagtg 480
 gncccggaac ccacctgntt cagacacctg ttncganggg aatctttcca tccacctggc 540
 cgttgggggtt aaaacc 556

<210> 7524

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7524

aagggccaag ggtaaagtga atatttatca ttagcaccac atcccatggt cagccccacc 60
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 ataagggaaa caagttccca gcctatgtca catgagtttc tgcactatgt gttatgtggt 180
 aaggtatgca ttccctcagg acttcccaaa tccattacat gctagggttt tctctctggt 240
 atgcattctg gtgtgatgta ccctaagagc tgccttacgg acaaaagttt tcccacattc 300
 atcacattca tagggtttct cccctgtgtg aattctctgg tgtactctga gagttgaatt 360
 ttgggcaaaa gcttttccgc attcattaca ctcatagggt ttctcccctg tgtgaatctc 420
 tggngtgcnc taaggggnga ttcttgggaa aacgttttcc acaatcatta cnattcatag 480
 gatttctccc ctgngggaaa tctttgangn 510

<210> 7525

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7525

atttttacat caagtgtgct ttatttctc cacaggtatt ctgttaaata aagcaccatt 60
 tatatactgc caggccacag ctaaagagga ttctttacag aatcaaattt cttgtggttg 120
 ttccgtatac aagtaaactt aattttgata ataagaacca cagcgatcgg aggcaatctg 180
 cctctataag gtacaaaact ggcaagagg acaccatatac atacacagta aaaatgctgt 240
 aagtttaaat tacattgtac agggctaggc aaccctgttc ttcccagaca gccatattaa 300
 atgaaagcca ctaaagtga ctcttaatta cataaaacat atccattatc tgattgccct 360
 ttaggaagta tactgaagat gcaagttttt ttcatctgga gttctgcctg accaagaatt 420
 aagcctataa atctatcttg ccattcaagc agagagcact ggacaactga agcncaaaan 480
 caaataagca aacttatnca acagcatggg gggtgggggt nanggactta aaagtgacat 540
 gctccncta 549

<210> 7526

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7526

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gcaggtgaga aatggtctgg ttttattgag aagctgttgg tcatttgatg gaaagacaca 60
tacggtacaa aattacaggt ggtttagttc attacatgat acaaatacatt agagtcttta 120
caagtcatta gagtcttttg attttttaaa ctcccattha ctgtgtacca aatcaatata 180
atcacagaat caaagtcact tctttatatg tgaactcttc gcatttacac gaatccacac 240
atagagaagc tgttccaaga cccccaaca ccattagtgt ctgcagccca ccaggaaggc 300
accatggact ttgtggagag aaagatgctt tgggggttca atgggtcagt atcttgggca 360
ggaagcacag ggtgactccc gtcttgtgtg cgtgcgcaca gccaccaaca cacactctca 420
ggactttccc gtttcacata cagggaactt ttaaggcaag aggagaaaat gctaggaagt 480
aaccggggga tcagaactcc tccacctttn aggttccacc agtcacattt cccagttccg 540
tcttntggtn gaacctg 557
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<210> 7527

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7527

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aaaaatagag acggggtctt ggcatgttgc cgaggctggt ctcagactcc tgggctcaag 60
cgatcctccc acctcggcct cccaaagtgc tgggattaca ggctgagcc cccgcgcccg 120
gcccagcacc cggttctcga ccacagccgc acctcggagc tctgagcatt tcctcctctg 180
caagactgaa atacttctat tcagtcttga atagaacagt taagagtagc atgcaggtca 240
cagggtcttc ccaggaggga aggaggtcgc agtccaaaag aaggggaggt ggtcactgct 300
gtccgcctcc cacaggggct tggagagaag tccaaaggct caagagagta gatggctatg 360
gaacacaggc cctgggcgta ctgtcgcccg ggcagccaca gtgggccacc aggagcggga 420
ccggcgcgcc ctctagtggc ggaagcaacc cctgcagcca aggggtcccgc atcctggaag 480
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caactgaggc acagagagac tgcgacgcc cccagggccc acctgggtcc gaagcgatag 540
aagccnggat ttgnatttgc ccgtctg 567

<210> 7528

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7528

ctgaaaaaaa tttattgatg gatctgagaa tttttcaca catgaatcat ttctccttcc 60
aatggttatt gatactgata gaagttcccc gctgagactc cctggaccca tggtttgtgc 120
ctgctgggca tcccactatg ctgattccta ctctaaaaga cacttacagc agaaagcatt 180
cacccatgac cattatgaag gaaatattct gtccctcact caccctctgg aagctaatat 240
ggagcagcag tcaactctatc cagagccaca tgttcacagt tctctagcaa gcaggtcaca 300
ccccgtgggt cccctattcc ccgtgaccct tgttgatcca tcctcttcct gctcagttgc 360
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ctgggatgga atgcaggaca gggagagagg ggagactgag ctgagaggga gcactggatc 480
ctgggaggtg tggatgcctg attacagtcc aaagacattg gcagcaacaa aggacccaca 540
atggctggaa acattacgtt cct 563

<210> 7529

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7529

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ctgtttttta gtgattactt caaatgtgat ttgaagcatt gtttggcctg aagctttaag 120
accagtttct taagcttttc cctgagtttc agcagcttac ggtttcagtg aataagcaga 180

gcgcctgggt ttgaaatgtc tgttgtttgt ttgaaaatct gaatgtgtct ttcaaaggct 240
gctgtgattt ctttggataa aatcagattt cgtatccctt agagagcttc cactcctgct 300
tcacctttcc aaaaactaga cctaaggtag aagccacctc gacagctcaa agccagagtt 360
agaacagtca tactgaatag atncaatagt ttatctgggt cgtatttgga gaaaggcatg 420
acaatcaata cgaggcagcg cagctcggag tcacaggccc gactcggttt gaggctccgc 480
ggaccataat tagctatcac atcaaacagg ttctgnagcc cctcttggct tttttcataa 540
accnggacca taaccggccc tccttt 566

<210> 7530

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7530

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gcattttagc caactcctgg tctgtccac tctcttcctt cttccgccgc tggggcctca 180
ccacctcttc ctcctcaatc acccggtctg ctigaatcag gtcagcttcc tctgcgatct 240
ctatcagcga actctcctcc tccccttctt cctcctcacc ccttctgccc tgggctgtat 300
tctcaggtcc tgctggagaa acactttgcg tgaaagaacc gacaccaaga cctagccact 360
ccagcatcat ggaatgcttc agtgctggaa gcaaatccat tcactatcct gcactgggtcc 420
attcatgaga ctttcccagt gctgggggtga gaatgtactt ctgcaggtac tgggtccgta 480
ggacaccacg catgngcac ttccagggtc tggttcctta tgaaactctt gcttgactcc 540
ttnatcnggg caagaaacc 559

<210> 7531

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7531

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cactcagacc aacagggagc cagggcctgc aggggcttta ttttgacacc actttgtttc 60
aatacaaaac gtccanaaag aaagtcaagt ccctctgggg gaggggcaag gggaagagtg 120
gtctgtgttg cttgggagcc caacctacaa cccaaagggtg ggggctgggc tganactgcc 180
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ggggaagaag ggataaagaa tgtcccanan ggtcctggat tcacagcana tgggtccaaag 480
gacccttgaa acacccttga acaattttcc aagngcttac tggaaaaagg ggtggtgaaa 540
acggganaac ccaagggttt ccggnntaa 569
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<210> 7532

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7532

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agagacatag gttctacttt atttacatct ttggtcaaac agtgggcatt ccaactcatg 60
tacaaaaagt tggcttttat ccattcctaa gtttggaatg aaaataattc cttgaatata 120
aactaatagc aaaatgtgta aatacacgga gtaaaataca attctccttg tacaagtgc 180
atgaagtcta cattaccagt tcggtattti ccatttttga aaggagaact gatagaagag 240
gctgggatga ttggaagtgg ccacaggaaa tctttgtgga gtctcttcag ggctattaca 300
aagttgtcta cccgggcggc tcgggtaccg ttccttgcatt agccaactaa ttagttcaaa 360
gcccagctgg gctgcaaagc agccaaggct ctttaacctc acatcttcta agangcgccg 420
agcatgtctc cagagcatca tgtcaatata catggtctca gcacagtcac tggcttttgc 480
tccatctttt tccaaaggga ccagatggca tacttagggt ttctggaaac cgaattactg 540
gcaggacatt ttagctgact gggataactg agc 573
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<210> 7533

<211> 499

<212> DNA

<213> Homo sapiens

<400> 7533

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atgtttaagc tgtatattta ctcacgaaa cactcgggtga aatcagggtg aaatcaacta   60
aaggaaaaat atttgtttca ttcatttgaa cttaaaccac cttaaagtagt actcatgtca  120
ttacgatgca gcaaatacaa gacctctttc tacaagatt agcacaacca acaaattagg  180
ggatatagca aaacagagcc aaaaacggta agaaatcaat taagtatgtt acagcttaac  240
cctttacctc aatagtttta aaaaaataag caaagcctcc caatcccaaa caatacgaat  300
acatcttcat caccaattcg tacttgtatt tcttattctt gaggttagat tctaaaccct  360
aaagatatcc aaactagtat tagatctact tatctatagc cagagacggc ttctatcaat  420
gntgccttag cagccaaggg tattaaaang cttttctang canggcgccg gtggctnacg  480
cctgnaatnc caactggta                                     499
    
```

<210> 7534

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7534

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cgaatgcgca gtgatgcttt aatccccctg tttgcaaacg agctctgtgg aagctcagca   60
ggaaggatgg aaagatgggg aggaagaccc tggcgggtgg aagtgtggcc aggacacaa  120
ggctgccctt atgggactga aagagaaagc tgctgggctc tgtgtgactg gaaaccaggg  180
aaggagacct ggctgaggca ggaactgggt ttgccagcag tgcggagggg cagcgggtgg  240
ctcanaagtg ggagcaggta cacagaagga gctcagggca tgcctggggc atctccaaag  300
ctctgctgag agtgaaggcc aggagcctgt tttccttccc cagaagtgtg ctcattggga  360
    
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atggggcagg gggcaagctg cttggggatg gaaagtaagc ttacctttga tattaactc 420
attctttgac ttgcttgcan gccaaaaagc ccnttttgga gcnttaacct tttagccntt 480
ggaagggttn aacttgggct tccanaaacc cccaancc 518

<210> 7535

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7535

aatgaccca agatataatt ctgattgtgg tctggatcat aaacccgcat cacatttta 60
atgtctattg tcttgagac aataagctgt tttatggggg aatgggtggg tggaataatg 120
ggagcagggc ttctgaagct gactaatacc tgaagaatac ggcaacgtga gaaggcactg 180
accggtctgc tttggtaaata ggaagaaaat catctcaggg ttgctaggaa catgggtaag 240
accagactgt agaaagatcc ttcaaaacaa aacagtttgc cattccttta acaattacta 300
acgtcaagaa cttggaattg tgccacggaa gacagagctt aagatggggt ggagccctta 360
cctccactgn tcccctgggc ctaaagcctg gnttccttat ggggtgttgg ggccacacaa 420
acaagtctct ggtttcaaca cagtacagt ggggaatggg tcatgtccca aatgattttg 480
gaacaaggnc agggctcctat gaccttgctg gcatgaatgg tgaagnccat aaggga 536

<210> 7536

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7536

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gttttcattc tctcacatat gtatactag aagtgggatt gctgggtcat agggtaactc 120
aagngtttaa ctttgtgagg gcttgccana ctgctgtaac atttcacagt cccaccagt 180

gcgttttgag aattctaatt tctctctttg ccagcacttg ttattatgcc tttttgactc 240
tagtgctatc ctggtagatg tgaaattatg tctcattgng gttctgattt gtatttcct 300
aatgactaat tccctaagca tcttttcata tgcttattgg ccattttata tctttttttg 360
agaaatgtgt attcagacct aaaaactggt ttaaaaagca atgcatttta aattaaatgt 420
ggagataacc tatgttnatt gctggatatt tacatctctt tccaactcaa angngacct 480
ggtgactaca tcctggcctg ganagcnnat gaaagctcct gggtaaaagg c 531

<210> 7537

<211> 536

<212> DNA

<213> Homo sapiens

<400> 7537

gcttttcaaa atgaatgctt tattttgaat tttaaaaata catacatctt acactgtaat 60
caaaacaaag ctaagaaag tcaattcccg ctcccttttag cctgactta cactgggtac 120
ccgtttctgt ggccgccggg ggtgacgggc ctttgagggg gctcatcccc gctccactgc 180
acattagcca gccccttccg ccttgtcttc cccgtgttgg tcatgatccc caggctactct 240
gtggtcagaa gcttctctcc tgagagtctt ccaagctggg gctggatcag ttcgtctttg 300
tccagatcgg ctccatgat gtcatggtcc tcttcatcat ctccatcttc atcatcatca 360
gattcaagaa caccatctgg tagctcttcg gaatttagct gcttgatgat gaattctatc 420
tggcggatca tttcagcatt ggcttctttt ggatgaaagc ancgtangaa ggncttccat 480
tcccattgnt ctgntttcc taccgaatgg atgggaccag aaaggatctg nccana 536

<210> 7538

<211> 529

<212> DNA

<213> Homo sapiens

<400> 7538

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 gtagccttga actcctgggc tcaagcaatt cttctgcctc agcttcacaa gcatgtacca 120
 ccatgcctgg ctaattttta aaattttttc tagagacagc gtttcactat gttgcacagg 180
 ctagtcttga actcctgggc tcaagtgate cttcagcctt ggcctcctaa agcactggga 240
 ctacaggcat gagcactatg cctgccccct actgccccct ttttaaagta cctgggagaa 300
 caaagtttaa atattctatt ttgttagcac ctaattaaca tacaatttaa gagactttca 360
 aaattttaca ttattgaaaa taagtaggtt gaagactttt acttacgac actttgctgg 420
 tatgctgcat ggttttgaaa taataaaact ttantttgna aaccaacact cacttaaaac 480
 tnttactaat tatatgaatc aaactggctc ttggtnaaaa tccccggg 529

<210> 7539

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7539

ccagtcccca aagaaaacca cattttattt ctccatcacc cactttcaac atacatccat 60
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 gtcaccagg ctggagtga gtggtgcgat cttagctcac tgcaacctcc accttccagg 420
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<210> 7540

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7540

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tgattctcaa ttttggcaag tacaacaggt taagggttct atttagtgtc cccttctgat 180
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gtgtgggatt tggagcatga caacaaaggc attttctcaa cattactaa aggagagtgg 360
ggtgttctat acgctactga tggggactgt catgaacaca tttaaattga attacaacaa 420
cattttagat aggaaatata gaatcttata agaacntaat ctaaantatt acccantttt 480
aatagcaaag nttaaccata aagctactta agtgttggaa ttanaaaa 528
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<210> 7541

<211> 528

<212> DNA

<213> Homo sapiens

<400> 7541

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agccaactat cctctaagcc acagcttggg aagctaggct agtactgggg tgggggcagc 180
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ancaacttca aggggcctct ctttctgctg cccactgnat gccggccctt ggctttaanc 480
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<210> 7542

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7542

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ccatggcacg tcctttgtgc tacgtgataa gtgtgcttta tctcaatgaa gcaacccac   120
gggtccaggc accctccctg cagtccccgc ggccaggctc ctgagtgtgc cagcagagcc   180
gtcccctggg accacagcca agtgccttcg ggcagctggc ctgacacagg cggggtctgc   240
tgggtctaca ggggtccaagg agcccatgc agccagtgcc ccatggcggg cgtgtcagtg   300
ggcaaaccct gcccaaaggt cccaccccca agaggcctcc aggaccgca ccaaggcatg   360
ggggacactc gtggctgctt aagtaactgg tatgtgcaca gcccctncg gggccctaat   420
cttgagccag ccaagcagtg ttcacactgc aagtgcctgg gaagcccaa gtttggaccc   480
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<210> 7543

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7543

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gagttacaag gtgttattat ctcacacaca cacaggaggc ttcactctag agctccgctc   180
gcaacaaaag catcttaaata aaactgagag aagcggtttg atttgtaatg ttttcacaga   240
agtgggatat acctcaccca tatagagttt ctttatatga ctcatcttat agcaagttaa   300
atgaaggaag tttgatgggg gagggagggg caatatgggt cccaccccc tttcttact   360

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ttaagaaaat cccccaagag atgacccgca ctgagggagg aggggctggt cctcaggtgc 420
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<210> 7544

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7544

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 ctgcagggtg aggtggctcc ctccgcacag gccccaggac acccaccatg gcacaggcca 180
 ggctgctgcc cccacacggc ctccacagg tcacgggtcc atctccacaa cccaaggca 240
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 aatgagcacg ctttctatgg ctgccaaagt acaaggagag gctctgccct gggagccact 420
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<210> 7545

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7545

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cacgcccggg aagtgtcag agactttcgc tgcgccaggg aaaccctgc agccccaga 180
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agtcctgnt taagcctcan tggccgggct tntgnttggc ttttaactta acaatccaaa 540
tctcttcttt ggctcttttg caataccnaa 570

<210> 7546

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7546

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atggaacttg catcctgaag gggagaagat gatgataaga actcaacaag ctctaggaga 180
gcaaggattt ctgtctcttc tgttaacttt ggtattccca gcatctacta gctgttcaat 240
aaatagttgt tgaattaaac aaaaaaggta acttcagcta gtgataagt ctataaacia 300
tacagtaata agtagagagc attggaggaa gagggcagat atgttattac agatcaagga 360
gttagaaagg gcttctctaa agagatgcc ttagaacttc aacttaataa cttaaagtcag 420
ccctgcaaag atctgaataa atactttnc gaaagagaaa ccaccaaggc tcttgctgag 480
caggaatggg ttgcattcaa ccaatggnct gnttgacaa ncccanggcc cataaagggt 540
caggt 545

<210> 7547

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7547

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caagcatgtg ccaccacact tgtttcattt ttaaattttt ttagcaatg ggggtctcgc 180
tatgttgccc aggctgggtc tgaactcctg gcctcaagga ggcactagat tgaatgacaa 240
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tgccagtggg atgtggcagt gccacccttc ttatatcttg gctgtcaagt cttttggctt 480
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acccaaan 548

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<210> 7548

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7548

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caacatgatg aaaccctgtc tctactaaaa atacaaaaag taggagaatc acttgaacct 180
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atctaaattc tacgttggtt aaggtagctt aggttaatta gtctatactt atttaagacc 360
aatatggggg gagatggatt tttttttaa aatcctacag taaggcttct tactttcctt 420
ctaattgagga aaaaggtgac aaaaattcaa gtgtcaatgn cccctttctg ggaaaagggt 480

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tanaaaaacc attgettacc ttgacttta cnagttcctt tgaagttacc aagccttta 540
atccgnngg 549

<210> 7549

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7549

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gaggaaaatc ttacatatta gggctcatct taatgttatg gactgatttc agtaaaactt 180
tttaaatagt aaatagcaat taacgtattc tcaaactgtg ctaagtagtt agaaaggcaa 240
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aagactcaag tgagttttct ttccaattt ggtcttttga acagaaggaa tccctgggcc 480
ttgatata taaggagcaa tatgaaatnc actgtataac tctaaatccc aaggccatga 540
atattcattt ctt 553

<210> 7550

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7550

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ccaaactatt tcactggtaa tctcccgtcc cactggaact ggtgcttgga tcggaaggga 240
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 agacatcatg gaatcagaca gctccctggg gatatttatct gcacatttct gtaaatttct 360
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 tcttgcaata ctgggcaaca gtccactggg cacacattcc accttactgg ttttttttaa 480
 ggnggtggnc tacattgagt ttaanccacc cattgatgac nattcggatt ggngcaataa 540
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<210> 7551

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7551

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 agtcaaggac cttagggagc agagcagtgg aatgcaaaca cagaaattac ctatgagtca 180
 cttttgtgag ccaatgacac ggcctcactg cagccattcc aagaagtatc tttgctcacg 240
 gtaaattgcaa agtaaacaaa ataccacact gcatatttga aacaaacaaa tgtgacgttg 300
 cctatactgg cctcatgtgc agaaggaatt ttggtcagac aatgacaaaa aaaaaaaaaac 360
 aaaacagatt gtgaaatgga attaaaagca caattctttg gnatctggga acgtttcact 420
 ggcaacacta ctgtatgata cagacgttcc tggaacagta gttatggttc tcttcctatc 480
 cccaaagaag cnccatngaa gaaatnggnc ncaaatggaa ggaagggggt tgttaccagg 540
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<210> 7552

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7552

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 cagactaatt tccaacattc acttgtttat tttttttaaa cagaaagttt tttccaaga 360
 tataaacaat ttttgttaaa ctataatata atgggagtaa aaatgaactg agaattctgtt 420
 tctgctgcac aacagcgaag ggagctccca caaaaatgtt tgccaacat ttccttcttt 480
 tggctctgca tncangttc acttactctt cataaactgg attttttgg ccaaaaggtt 540
 ggnanttcaa 550

<210> 7553

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7553

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 gctagttcat ttttaaatta ataacttgaa attacccttg cccccaccc cattacatct 360
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 gaaagtgcta attcatttac agatttttat aatcagggtat gtaggggcta caataaaatg 480
 nccaataatc tacataggga ccatggtgga aaatggtgaa naccgggata aggnnttttag 540
 atggnccttt t 551

<210> 7554

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7554

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attctaactc caagctctac cacaaatcaa ttatnccaat ggngcgactc ttcatatgcc 480
ggatcctgnc cttaaggngg gnatggggga ctcagaacct ggattcagna aacacctgga 540
agctgggact tntttt 556

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<210> 7555

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7555

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gggganaagg ctgggccaga gccaatacca cattctgaac acaggagcca cgggaaagag 180
gtgctggttt cttctggcaa gaccggggtg actggaacgc agngttctac tggcaaaccc 240
agcccaacac tgagctnttt ctagcatgga ctccattccc gtgatggcca agggagaccc 300

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ttccccana agcctgtgtc cggaacctag canagcctgn gccatccgga ggagggggct 360
gcttagcccc agccaggctc catgtcttgc tcttcaattc cgttcactga catcagacct 420
tgtccacac tcgaaaagcc tttttctccc ctggcttatt ctaaactgga aaaggacngg 480
agaaagtcag cncaagactt aaanggcccc aggagaaatn cccanggtna nggcaaaa 538

<210> 7556

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7556

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gggtagttaa tggggaaatg gccccaggg tggggctgac canaanagcc cctcaaggag 180
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ctttc 545

<210> 7557

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7557

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 ctgaatccag ggacacgac ccggttttcc tggttgaata atctcatctn catttatgac 480
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 ttaagntcct 550

<210> 7558

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7558

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 gccatggctt cccatgggtg tctcacacag gggagaccaa cttaactagc accccagaaa 480
 ctcacattag ggtttacaat agtaagggtg tcttttaggag ccacnttggg gaggggtcaaa 540
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<210> 7559

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7559

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ttatttaagt agtcttcatt tttgaagcat tttcccctag tactctaatt tcaaaatcag 180
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tagtacaat cagaaacttc ttgctactca aattcaaaca gggtgcaatg aatggggtag 480
tttcgnattc cagaactacc tttncttacc tgnctctaca ttctggnttt cttntnaaaa 540
attncccttc ctttggggga atccct 567
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<210> 7560

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7560

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ctgaataagt ccactatgga tatatatagg aagagatatn catatatcca tccacagatn 180
cacacacaca tatatatattc tgcatgtata tatacataat tctttctata gttncaggaa 240
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gcacatcggg gacncagngt atctgaagac tccgcngnat acttccaaca acgggggcat 480
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ttttctttcg naaacggcat ggcaattact ttataggaag acttttcgaa antccccccc 540
tt 542

<210> 7561

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7561

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ctgggctttt atctgaggtt cagatgcttc ticcaagatc acatggttgt tcacaaaact 180
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catattctgt tggttagaag caggttacat gtcccaccca ctctcaatgg gggagaggat 480
tataccaagg catggattat tgagaatcct ctagaaatct gctatcataa ngggaatatn 540
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<210> 7562

<211> 444

<212> DNA

<213> Homo sapiens

<400> 7562

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atataactag tttgnatgtt attcccaggg cactgttgaa tatattggaa aaaaagatga 180

ttgaagcatt tactaaaatt tttgttattt aaaagaccaa atccctatgg atttgggaga 240
 ttgtttcanc agagaagtgg ctcanaaaga cagtaacaaa ggctatgact aaatggatac 300
 agttctggaa agagaacaaa ctgcagagta ccacagggat aatgttaggc cttcttacia 360
 atgatttgca agaaggaact cgggaacatt tccaaaccca ctggttgcac tcaactntgn 420
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<210> 7563

<211> 498

<212> DNA

<213> Homo sapiens

<400> 7563

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 agtaactggg accacaggcg ccgcccacca cgcccagcta attttttgta ttttttagtag 180
 agacgggggtt tcaccgtgtt ggccaggatg gtctcgatct cctgacctcg ngatccaccc 240
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 aggctggtta tgaactcctg ggctcaagca atccacacgc cttgncctnc caaagtgtg 420
 gggattatag gctgggtcac tacnccagc ctntatatca tggacnctt tcatggggaa 480
 gaaaggngac tggaacga 498

<210> 7564

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7564

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 cgaccctgcc gaccggcttc tctgtcctgg ccactgtggg canacggggg gccttccggc 480
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 gaacccc 547

<210> 7565

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7565

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 aaatacatag caaatttatg aaaagaagaa tattcaggga taatgcaatt tcaattgact 180
 aaaaagaatc aatgagaggt caagaaggat ccacttccat ctgccacatt tgagctgata 240
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 tataaaagat aggaagtaaa atgtgtaacg atataaaggc atgtgaagtt taaggcatca 360
 aatactgcat tggctagggt gttgctggat ctctatccag cagactccaa ctgtincaatg 420
 cttaatcaca gtangactta cttggcaatt cacatgacca gtccaaactg gcccatgaag 480
 gccggcaatt ccctgggggc cgatcgggaa tttggattga aanagggtg ccatggttcc 540
 acataaggct tttaatgggg ggttggt 567

<210> 7566

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7566

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aaatagagac aggggtcttgc tctgtcaccc aggctggaat gcagtgatac aatcacagct   60
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aggaccacag gtatgtatca ccacacttgg cttgtttatac gcacgtgtgc gcgcacacac  180
acacagacgt gtatatatat atattttgag acagggtctc ctgttgccca ggctggagtg  240
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ttcagcctcc tgagtagctg ggaccacagg catgcacat cagccccggc caattttttg  360
nagtttcggt agagatgggg ggtctcactg tgttggccag cctggctctg aactcctgac  420
ctcaagtgat gtgcctgcct cagtctncca aagtggggggg attacaggcg taggctacca  480
caccacgcct atgggcttac tatattgncc aagntgggct caaaaattct ggccttaaca  540
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<210> 7567

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7567

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tacttgaaaa agggtgcaaa aacaccagac taataaatct gactgaattg aaatatctct  180
tctttctttt taaaaagtac atcattaaca catacaccac aaactgtaca taagctcact  240
ttaaatcacc aactggagat atggtagcat gtatactgta gtgttaatta tccctcccat  300
cagtttaatt tattaaagcc ttacactgct gttcattcag gagcctttgt tgatatgcaa  360
gcctgtaata tgaattactg aactcaggta agtagaattt aaaggaggcc aacaacagct  420
gccaagaatt atctgcagta agaaatgtcc ttctcacaga agactcaatt aggagccaac  480

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atTTTTTaaa ctatcttccg ntttcaaaaa tattggancc ggncaaaaat cttcantttg 540
gaactctgga tgctggnggt tgatgaaaac 570

<210> 7568

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7568

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agtaaataaa ccagaaattg gataggcgtg gtagctcatg cctgtaatcc cagcactttg 180
ggaggttgag gtgggcagat cactagagtc caggagttca agaccagcct gggcaacatg 240
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cctttagtcc cagttatgca gaaggatgag gcgggaggat tgataaacta cccacgtgg 360
tagtttaacc tgttgccat actttgaaa caaagagaaa aatgcatcca agtttggcaa 420
aggaaagcag caatcatcta tctgtcttgt gccaccatc aagagagttc ttgagaccaa 480
agtttccaaa tggagactta actctggcac tgcagaaaag ttaccaagaa tctgaaggnc 540
ngactgatgg tanactttat tcngaaacaa 570

<210> 7569

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7569

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aactgccttg actgctgtgt ggacaaagat tccaaggatg tactttggct ccatgggaag 180

gactactgca atttattagc ggtatctgta aacatgggga ataaatctca gccctggctt 240
 cagcctcagc cacagccaca gctgcagctt ggacttccat ctccactgcc tcgcggtact 300
 gcacagccca gtccttgggg tctttcttct gcaccctgca tgcaaacttg aggactttca 360
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 tgtagggac cctcttgtac tccaggtact tctgcttcac aaactcgnct gngatgaagc 480
 ttntcactt tcccaaaaag gtgaatgcct naccacaggg cgcaacccca acttggcaag 540
 aacttccaaa tgacagctta attggccttg gtgn 574

<210> 7570

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7570

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 cactgcaacc tctgcctccc agggttcaag caattctcct gcctcagcct cccaagtagc 120
 tgggactaca ggcatgcgca ccactgcacc cagttaattt ttgtattttt agtagagatg 180
 gggtttcacc atgttgggtca ggctggacaa ggcttttttt ctttggagaa atcactcacg 240
 atcgtatgaa tttgcttcca aaacatccaa atttaatgta ctaatgcaag gactggtaag 300
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 aaagccagcc aggacctgac cacctgtatc ctcttgggtg caatctgctg aagccagatg 480
 agttctgctt ttttaattcca atcctattct ggcaactggaa ctangnctgg caaccctctt 540
 aatcattaac atatcaaa 558

<210> 7571

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7571

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gaatgccatc atcagagggc tctgggtcat cagccaagga ggggtgaaaa gacagaagca 180
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tgngctcaga taccagaggt tagtcaaccc agcgtctca actaattgga gatcggagct 480
gggcttaaga ngctgaaaac ccngggntt agtaaacaca gnccagcata cgtccttcac 540
gggctgaact ggacttgcca n 561

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<210> 7572

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7572

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tgttctgtac aggtgtgcct gtgagcagca aacggttatt tgcattaatt gtcataaggt 180
gctggtagcg aatggagccc atattcttca gcatatggcc ctcatcaaaa attgcgtaat 240
taagtttcag ccgtcgaaac agactacggt catcagaact gctgatcgca cagttatatg 300
tggtcacaat tacattgtaa tcttcatatc tactatgaat gttaaactta atttgtttac 360
gttcttcttg agaaccatag taacagagga ctttcaaagt agggcaccat aaattaactt 420
cccttaacca gntatctata gttgaagctg gaccaacgat caatgaggac cattataccc 480
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aatnggcaa aangccctta aancc 565

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<210> 7573

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7573

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ctttgtcaga aatggaattt cacctgtcac tcgctgattt aaccttact ttttcctga 180
cccacacca gaaccaggca cctccagag ctggcccatc tcccctccag cccctgcctc 240
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<210> 7574

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7574

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tcaatggctt tggctggcag agtgctgagt ggggcctgag tgaatgaggc taaaacgctt 240
ggccgaagcc gtccatcccc aatcctgaga acagagttgt ctgtttctct ttcgggggtc 300
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aggtcagccc aagtaagagg ccaacaacct acctgggccc atacaaggcg acacaaggcc 360
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 gtgcttagga aaaggcgang ctttggtaat tctcatcttt gtagttctgc tttgaaaaga 480
 aaagggggcc ggcaccggcg gttacgcctg naatcccaac acttttggaa ggcccaaggc 540
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<210> 7575

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7575

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 ttggatccta gcaacctcca tttttcttc taattcatga agaaattcac catcggcagc 180
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 ctgtagcagc ttatctgcaa ggncgacttg gattagccca ntattaangg caatactaaa 480
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<210> 7576

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7576

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 nggtcaacc tttctgggctg nttacctggc acttgcataa agggatgtgt aacttaacat 540
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<210> 7577

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7577

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 ttagcatcat gaggaagaaa ctttttaagt caatacagat tataatgaac acctgccatt 180
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<210> 7578

<211> 595

<212> DNA

<213> Homo sapiens

<400> 7578

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<210> 7579

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7579

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cttttggtgg ggggtgcactc ttgggggtctg ccatggntta agctgcatgg gcactgnntt 480
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<210> 7580

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7580

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<210> 7581

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7581

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<210> 7582

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7582

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<210> 7583

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7583

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tctgagaata ccagtaaggc actgaatgca aataccacct gaaatatgaa ttatgtgcat 180
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cgtcagccat aataaggcat aataaagcat gaagtcacatc tattaaataa tctgacacaa 480
aagcttaaga tcatatcacc aattgggtaa ttgnataaaa aatttttaag tctattaact 540
attaagangg tagagnttta gctncataat acatc 575

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<210> 7584

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7584

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aaggcgttca atgtcccgaa gagaaagtaa ttcacccctg ggctcttcat cactgtctat 180
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gagactggta ctttcccatc catcttcac attttcagca ttctcttctt tctcaacttc 480
cagaacttct gctcctggaa tgtaatcttt agcatcta atctccatata ttggactctt 540

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gcttctatgg aggccctgga ggcttacccc ggaat 575

<210> 7585

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7585

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 ctcccctccc tccctccctc cacacacag cgcagaatac actcagccac acacacagag 180
 gcacgtgcac acccccttcc atggctgcag gcagagggt ggtgactggc ttctaagcag 240
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 agggggctcc gctaaaccag aggcctggag gagcctggct gggaggcagg ttggggcttg 360
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 cctgggaaag ccttcttcag gcagaatgaa gacccatggg aaanggcant cagtggggan 480
 gcaaaagaaa aaagggaac aaggaaatgt gcctggctta aaatccactt ggtacaccna 540
 aatggggggn cctngggtaa acagtc 566

<210> 7586

<211> 288

<212> DNA

<213> Homo sapiens

<400> 7586

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 ctgtggggac tggctggaag ctgctggcag ggtggagtgg gctggggccc cggcagattc 180
 agatcgaggt acagcagcgt taataatact cttggagcgt taatactctg gggaggggca 240

ggcacttggg gggccctagg gcatgaaggc acttgggggtt gnnnnnnn

288

<210> 7587

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7587

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 tacaggtgcc cgctctcag ccaggccaat ttttgtattt ttactaagac ggggttgac 180
 catgttgcc aggctggtct tgaactcctg accttaggtg atccaccgc ctcccaaagt 240
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 ttctaaaagc tctgacgttg gatccctct gctgcgtttt ttgttagtat caaactgtct 360
 ttcagagggt taaggagaa aacaaaaccc atgatgtcc ttcacttgc ctccgaggcg 420
 caggcgaca gaaacagcgg cacggaccac agaaatgcag gacggactnt tctggttcca 480
 cgccacgang ctggaacatn aancccagt cctggggcac acacangctt caggaaacta 540
 acttctttca tcaagttaaa acatn 565

<210> 7588

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7588

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 ttgaactaat ttatactccc accaacagtg cataagcatt gccttttctc cacaacctg 180
 ccagcatctg ttattttttg actttttaat aacagccatc agccattctg actagtgtga 240

gatggtatct cattgtggtt ttgatttgca tttctctaata gattgggtggt gttgagcctt 300
 tttcatgttt gttggctgca tgtatgtctt cttttgaaaa gtgtctgttc atatgctttg 360
 cccacttttt aatggggntg gttttggaaa ttggttaag tttcttatag atgctgaata 420
 ttagancttt ggtggatgna tagnttgcan aaactggcat tctgnaantg gctggtcact 480
 ctggntggaa tttctttgct g 501

<210> 7589

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7589

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 aatttcatgt acttgaattt aaaaactcta agtgccaaca ctgtaaacad tttgtatctt 180
 ctcaactaaa ccttgcggga taacaaggaa aagagcaaag ataagcagta ataattttgt 240
 gtataataaa gctgatctat ttttcagctt ctggttttaa tttaaataag attttaaaac 300
 aattttttaa ggtccatgct acaattgtaa aggctatttc tatgcacttt taattctgga 360
 cacaattttc aaaattgcat gatggaggta agaattttta aaaccaccg gaatgtaaat 420
 aacagggaaa gaacattttc aaatcaaagc atcaaacata cattcagggc agaaatctag 480
 accactnttc caggttttta gccatcatgg ttttaatatnc actntntgac cggaaangga 540
 cccgaaatcc ccatttnntt 560

<210> 7590

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7590

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ctgcacactg agagacttca aactttcctt tcacatcaat tctatatttct gcaatatcaa 180
ctgtgccatt ttcagatttt aatgttgatt tacattttta aatatctttc cttacttcat 240
tcaaataatt gaacactttt gtttgtttct cagccagcat cctcttcac tcagtttgcc 300
atgtaatctt gggcctgttt atgtagaatc tatgctttct tgaattttat tcagagtata 360
agcagatggt ttctcttgaa atgattcacc agcactccaa caagttctcc aattcgactc 420
tcatgggttg gctgtttgct gaagaggcag acaatggagg tcttggtggc nttnatgg 480
acctacaggt tggnccttnc attggagacc tcgaccagcc aatgnntaga gggatagctc 540
acnctg 546

<210> 7591

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7591

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aggcccctgc ccggggcagg gcagccatcg gctctttgcc ccagtaaaag tttctcctta 180
gtgagactag aaaacaaaaa caatgaaacc caccacaag ggaaaaaaca aacaaaaaac 240
aaacaaaaaa aaaggaaaag gaaaagaaaa aaaagcaaaa gtactggacc attctgtgat 300
tccgtttaac ctcggccact tcaggaacgc tgcttctgtc agcttcctcc tggcgctgct 360
ttaacctaaa ggactgagga aatcagaact ccagaagct ttttcaaaaa gtcataaaac 420
agaaaaacaaa aatcttcttt tggctgcaaa attccaagg ggggtggtga atcgctttt 480
tcctangga caagccggcc cgttgactna ncanggaatg gcntttaagt tnatccantt 540
ccggcagttc a 551

<210> 7592

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7592

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gcaagtttta tggttcatat tcaaagttca atctatgttt cacattttta agttcagaca   60
tatcaaagcc taaaagtaca gaaggcttgt gattttttat tgctttcatg caaatatacc  120
ttctttttcc aaaaaatgaa gccacatcaa ttttccacac caaaagagt gaggacaaca  180
gttctatttc ctttttacta ggatatgggt tcttatggaa ataatcttta agaaattgct  240
tcttttcttc ataagaacgg cttcatatt ttttaggata taatgctaaa atctgaagag  300
cctcgtcctt gacaataggt ccctctgttc tgctttcatt ctttgtctt ttaaaaggca  360
caacactcgt caccttttct ggacccgggg ctgcatcggc atttaggatg ggaggctgct  420
cctcccatg ccgctgggtc tcggccccta agtggccatc aggcagcttt ctcttaacag  480
aaaaactgga atcatgcatn acttcaccac tgactaaaag cagntcactg gtggngaata  540
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<210> 7593

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7593

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cttcagaaac aagaactctt tatttggtta aaaggagcac agggacatat gaagaccaga   60
gagttacaac tttctcttga gaagaacaag gcgtaagcat tgaagaaact aggagataag  120
acagaaagga gccaccattt tctatctcaa gcaaaccctc atcaatgaat atgcgatcac  180
tgatgggttc caaccattt tcacacgatt tcgtagttcc tttccttctt aaaatgtctg  240
tgtgctgtgc ttgtctccac actgatagtg actattcacc tggctcaca cacatgacct  300
ctttgtatac taatatagtc agaggctaaa tacagctagg gaaaccttag actaactttg  360
caactatctg cctccagtgt caatcccaaa ccccgaaaca ccatctttgt ttagtgggca  420

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agagagggac cacattgatt tcagaaccct cagagagctg cttctcatta tataggcaac 480
gtgtgaagac atatgattta aattggggga tgtcacttct tttgggtcaaa ttgactggat 540
taagggttat gccctattaa ccaaggtacc ttnttccaaa actg 584

<210> 7594

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7594

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ttacgtagaa gctatcccca ttggatagag cagggcttgg cagaccccg ctttgaatga 120
acaagtcgac ttgctcagat aatccttggg gggaagagac aaatgcgagg agtgctctcca 180
cagccctgct ttgcttttgc ttcgtcactg tcgcccagcc atcgccctctg aaggcctgtg 240
aagttggagc ggccagcccc agaagtgggtg cccaaagcct gtctctcagt ggcctcacct 300
ctggagggct gggcaacagc actggtcaga agttccgaca gctgaccacc ctcttcggct 360
gagctagagg tcttggcttg gctctagggg agcctcgagc tgccccacgg agaccagggt 420
gctgagctgt cccgaggcac cgctttcggt gggaagggtga ccaagtctga gttcttgnic 480
tcactctgat cactgnctg cttcttgnng catctcaaga gagtcatccc tgacnaagga 540
ngccccgcag gtctcacagc ggaaaggcct ttgngtacga tcttg 585

<210> 7595

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7595

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tcttccacat tccttatact gatagatttc cccttggcta tgatttcctt gatatgcaaa 120

acagttccaa tccatgggtga catgtatata cattcttaat atttataaat ttttacttgt 180
 ctatagtcta gtattgttat accatgtggt cttgttataa tcatggtttc cattctgtga 240
 gtcttcagat tatgagtcca acacacaagg ggatgtccac actaacctgt gtgaactctc 300
 tgatgtacaa ggtgtttgac ttcaggcagg agtttctgat tcactatact gaaaggggtc 360
 tctgatataa aatgagggtct gacttcagag aagccttccc acatctatta cattcatatt 420
 gcctctccta tgaattctct gatggctgtt gaatgctgat ttgtggtaga atttttttcc 480
 cattcagtac actcataggg tttctctcct gaatgagtct ataatgnaca gtgaggtagt 540
 acatncgaga naangctttt cccctcata cattcaa 577

<210> 7596

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7596

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 cctctcaacc cttgtcctgg gagcttcaag tatggtgagg cacaactttt attaaaagag 120
 ttacaaaca gaactattaa acacacacac acatacacac acacatatac acacacaccc 180
 caaaaaaaga tacactctcc acgcccaccc acagatagga atgttggtta agggataatc 240
 cctcaataac agggaccgat ggcattgate cccacagcct agagccgaga caggctctgt 300
 cttcatcact gtcctggggc cagcacgtct aaggcaaaaa cctgctggga agattaaagg 360
 agctccagaa aggaagagat ctttcaggtt gaggtttttc cctaaggtcc gtgaggcagg 420
 tccctagagt taaaggcaca ttattggaga aaaggccct ggatgtagag aagaaaggac 480
 tcttctctgg caccaacagc aataaaattt actggttgaa aacatcctgc atctgggaga 540
 aggaagaagc tttatatata aatctcttct agtttcttgg ct 582

<210> 7597

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7597

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ctcatggcca gaattgaaaa ttttctcatc cagaaattta gggcacccaa ttattgaata 60
cccttatcat attgctttta atgacagaaa gattaaagct ggcatcctct atagtatact 120
aagcatgaat gtaaagtatg agaataaata ggagactttc ctaaatgtca aattacaaaa 180
ccgctcaaaa ctttgtaatt gtgactcatg caaatacctt gttaggtcaa cttaatatta 240
caaatactgc atcagctcgg tgcctttata tcccttttca taaaaaagaa attctcactc 300
cactcctgaa gccagcaaac agctctggag gaattacctg tacaccaag tgccacggtc 360
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aacacacaat ggtgtacaca cacacacaca cacatccaca cacaccccat ctttaggatt 480
ggaagctgat tccaagcctg gccttattct atctaaattn tcttgatat cctgaacacc 540
tggtggtcac aaaatgnatc ttttacctcc tn 572
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<210> 7598

<211> 456

<212> DNA

<213> Homo sapiens

<400> 7598

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gggttttagga aacttggaac ataaataatt cagcataatc caaaaataac atactccttt 60
taaccatcat tatttgagtg ctctctagaa cactcaaaaa aatgaactgc actttaaaag 120
ttaattcatt aattttaaag gcaatttaaa taatctttac atcttaaatg aacatcttta 180
aaaagcaact tcagaaatca aattgaatat caaatttggc acaaaaatta aggaatttcc 240
ttaaacacagt tgaaacaaag ttaaacaag gtccttaaaa tatctctgaa tgttttatac 300
agagataaat gttttataca gtgtttaata cagtgtttta tacagaatgt tttatacagt 360
gttttcataa aaacactgcc agnnnncccc ggttacacct gtaatcccag cacttttngg 420
ggccaaggcg gngagatcac ttgagggtcan gagctc 456
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<210> 7599

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7599

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cattgaaagg gctataaaat tcaacatact gacaaggaag caacataatc acatagataa 60
cgccctctgct aattgctttt acctaacttc acccttaaag gtgagctgca cactcagcta 120
cacaagtttc tagactgtgc gatggcttca aggctggcct accacaactg actgaaaaaa 180
tgtcatgttg gtaagctgac actgacttgt atgtttttaa aaatggagag acaatggcaa 240
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aagtgatcca tgagtaaata caatctctgg gctaacttaa acctagaaga gtgagccaag 360
tgagcactaa caataccact tagaaatgtc tagaaacatc atttctagaa ctcagcttgg 420
gagaccatat cttgcctgaa tatgtacata tatttacaac atattccctt ttggcctctg 480
gaatttagcc attttagttt ggctgttagc tgnittcttt ccatatgcta gccaataactg 540
cagttataac tatcattaaa atactcttat gcatgaattc caat 584
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<210> 7600

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7600

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cagagtatca taaaataactg gatctcgatg agcagccttc ctctgaaaat gcttagtttt 120
ggatcctcct ttaacaagta caacttttct tttcaaacaa gtacaaccaa acatgcagtc 180
tggtcggcgg cagtgagcag gttggcgctt ctccaaagct agactggaac atacacaacc 240
cagtcgacag aagtcattgt tgcagggagg ggctcgtttc cttatgattg tgtggatagg 300
tttagttttg agggatgctt gagctgtaag tagagttggt aaggatacat ctgctcgctc 360
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ttctgtgatg tatgtccttg gttttccttc ccaaagtgca cagtcttcca ggtccattag 420
 cttcacctga gatttagaca agcctggagg gcgacttccc tggctgctgt gctgctgctg 480
 ctgtgcctgc cgnaaactaa tctggtttgg aaatatattt catccaaagt tggcncaaca 540
 aagttatcgc ctggattttt gaaaagaagc ctgaanaatc ttgggaacct tn 592

<210> 7601

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7601

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 acagagggca aacaggctct gagccaggcc tcagcttttag aggcccatcc tggagaggaa 120
 atggcacttg cagggaacat gagctcaatc actattgctc actaagcaca gggtcacact 180
 ggagtcactt tagggaggct gcgaggaaga aaagagagtg cacagagcca tgaagcaact 240
 actttaaaatt ctgaatcttg ctgtgttccc actgagcatg ctgccttcct agagcaggcc 300
 ttggagccat cccagggact aacacagatc cttcctgggg cgcaggcttc tcacactagc 360
 gtaggggtgcc taggtcatcc tcatcattgn ttatcatcac agacttcttt ctgcctgcca 420
 gatatcttcc ctacttgngg ctttaaaaca ccagcaggan gggaagtcaa nggaatggtc 480
 ttggtaagta taaatccata gcaaaaacga ttgagaact ggatgcttcc caaggttgca 540
 ggtgtttgga tggttcctga atctttatcc caggatcttg aatggggggc ct 592

<210> 7602

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7602

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ttaaaaaaaaa aaaaacaaaa aactaaaact gccacaaata ctgaanaggc aagctccagg 120
 cctggccttt ccagctggag gcccgntntc ccgtggaccg caccgnaaag cccagcccgg 180
 cactgntggg tgaccgtccc atggctggtt cgccccggac cactntgntg aagtcagggt 240
 ggggtgttaa tgccccggcg catcgntaaa taaggacaag gggaaaaggc agcccacctt 300
 tccctgaaca ccttccatnt gggctgaact ttcttgggaa tgtataagtt atctggatga 360
 aggaggtggg agatggagaa aantaaatnc caagaactaa agtgagggtc ccaggacctn 420
 tggatggcagn tcagccccgt gggcaaaaact ggcctccang ganggaaccc tgattatcca 480
 aatactngc ttttgaaant tggtttcttc anaaccttgn cctggggggac tgagtntaaa 540

<210> 7603

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7603

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 gaggcaagtg gagactggct gtctgtaggg agtggagaaa tggcagggtc agcttgggct 180
 ggtgtcctct tctcanaaa gtgctgtggg tgaaccaga gtctcaggga gcagaagccc 240
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 gcgccttgtc ctcagaagac gaggaagagc agggcctcat gccggggcag tacgatgttc 360
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 ccgatgcgct gntccgcaca ggagtggcag aagtagcccc cctggtttcc ttctgtgct 480
 ataggtgatg agcacttttt catggtaagg acgggggtcac angggatggc attgtgcact 540
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<210> 7604

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7604

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aagaaaaaat gtctattatt tattacacaa taattctgac caccaacaac caacggcggg 60
ggcgggcagg agagaagaac atcttgcttc tcaacaaact ttcctccctt gctttaacat 120
ttttgaggat tctttcccaa acctattaca cctgtattat gatggttaca aattttccaa 180
ctcttccact ccttccagtg cattatTTTT agtatcttca ttaaacgggc aaaaaaaaag 240
atcccctact tgtaataaca aaacaatgtt ggaaactgtc attaatcag gataagtga 300
aaacagatct gttcccagac tcgcaggact ataagtttag gaagtacaca aaaaaattaa 360
aaattaatta cacaatagga tacattaaat atgtgcagct ttttgnatgt gaatcatacc 420
taagtagttt taaaaacaaa tggatccaac ccatccacca actaataaag accaaccgag 480
tctncaaag gaaaatcaca ctttttgggt tactcctact tgggttaaga cccttaccat 540
aaaattgctg catgganatg gtcntaata caccggtgaa tntt 584

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<210> 7605

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7605

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cacacttgca tttttttaat aaggaattta agatccatag tatctttaat gctcggaaga 60
gacacaaatt caaggngata aaaatattaa ttagaagaca cataacatgc ctcaagtata 120
tcaacacttg actccacaaa caaggcataa ccatgaaaac aacactccct ttattttggg 180
ctcccaaaat caaaagtttag aactaattta tttaatcaca gatatttagt atactcaata 240
atgcactaac aatttcttta aaaaaacact aatactgtnc agtatttctg ngtttttagtt 300
tttcccacag ctgttgaaaa tticagcctt gatttgaaac atgacctgca tgacaggcta 360
taagttgtca atagttcttt ttctttggaa aagtcagctg tggcatttac tcactttagc 420
agatagctaa aagggaataa taagggaata atntnactg gacctgcagt naagttttgg 480
aatgccagg gtcaaaaacc gatgaaccac cnttgctgga aatnaaagg tntgcattgg 540

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gctaaaaana g

551

<210> 7606

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7606

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ggctctccata tacatatttatt ttgtgtagac aacaatgact tttcaccatt tcctttcctg   60
tggttccatg gttctcaaaa tggttaatttc atttatacat agcaaaaagt tcacaaaacc  120
tttcagcact gttcacattt tcacatttgt ttaggaaaca atttgtttag gaatacagct  180
agctgatttt cttctgattt cttccacttt tggaatccca cataataata atgttaaagt  240
ataccaagaa gaacaggaag ttcaagcaag atacaaaaca caccaataca gaaaacaagt  300
ccggtagttt ctgaggagga tccagtgtga cagtcatcaa cgtcagaagc accatagtga  360
tgactgagat aagaaacaaa tattgtataa ttctggaaag aaatgtaaaa catggaagat  420
atttcctcac agaaatggaa aaggatttca actgcagtct tcttcagaag tcttttcaaa  480
tattggaaaa ggaagttcca caagctntta aaaatgccat ggtggcacac cganggcntt  540
ggagtcatcc ttataaaaag                                     560
    
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<210> 7607

<211> 421

<212> DNA

<213> Homo sapiens

<400> 7607

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caagttgatt ttattaacaa aaagtgcaaa ctatittgaa caaaagtaaa ctatgagtca   60
cagcattcag caagacatca gacacggaag agtgaacaat attcactaag taaaatacag  120
cagatgagat gtctctcaca tgtatattta attattcatg ctttttcaat agtctcttag  180
tcaactttca gtgtaatttc cacaaatata tagcagctca aacacaaatg caggagcaca  240
    
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atggcaaagt ttggcaactg ttttgggcta attatgagta tgaaagaaaa ccctatatca 300
cagtttcacg ttcattgtaag ccactgtgca acatgaatga atctttaaat gtgttgacac 360
tgaaatcaat gnncaactaa tgaaaataaa gaanaaaagg gggctttaaa anattngnng 420
c 421

<210> 7608

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7608

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atgatcatag gaaacaaaat gaggacagag gcattctggta tcttctaaaa gtggtacaaa 180
actcccgctt gtcattgcat aaagctcccc atctgggtgct gcgaccacc tccaagagaa 240
agccaaagga acagaccaat aaaaggggtc cggggtgctt tctctatttc actcactcct 300
cttatttgct aaggagctcc aataacaaa agaaatgggt cctagaagaa gagaactaaa 360
tctccagaga gctgctgggg cataccgata aaaactggga gaaacaaaga ctgacagcag 420
agaagtccaa tactgctgct aaagtttctc agcctaaatc cgggaaagag ctgggatcta 480
ctgntttgct agtaagagga cttttgggcc tggatgacct ttcacttttg cttgatgcnc 540
ctntaaaacg gtt 553

<210> 7609

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7609

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gttaaggaca atgagctcat taccaagcca gttattgatt ctctggttcc aaaatagaac 120
 agtacaggaa gggatatagag aaaataggat ttttcatgat aaaaatttta agcatcttag 180
 gaacacagac ctaaagaaac tataagacac aacggaaatt tcagcagcta cttaggatgt 240
 ttattttattt accttttttt gccattaga attagttatt tggtttttac tcttaaaaaa 300
 aaaagtattt tcaactcaag tcagaggagt ttgccaaaac tgaatattac ctcttactga 360
 cttattattt ctttcaattt cttgtatata ttcctctctt gcctttgaaa agtttacctt 420
 actagctata tatcttatat cactgtcgtg gtcagactg ccctaacaaa ataccatagg 480
 actggggngg ttttaaccncc ggaaattaat ttcctcacag tctggggatt agaagtcaac 540
 tcaaggngta agctg 555

<210> 7610

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7610

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 acgttaccac taataaactt attttacagt aagtgttgt atgatgcaa tactgactca 180
 aaccaacctt tggatagaaa agtgtttgag gaggtaggta aagaatgaca cttccccttc 240
 ataccaatgt ccattaagca gattgcttat ttaaaatgtt aacactcctc acattttatc 300
 tatgttgaat aaatgtggtt ctgtgtgatt gtcatttata tctgatcccc aaatagctca 360
 tacaataatc cattcaatag aatggaatta aaactgttca gaatgatttt ccaactagca 420
 aatataagta tgcctgggta agatatcttc cttttgtaga aatggtacat tgggatggga 480
 tagtggtgct ggacacagaag gccaaaatat tcttagacga gctatnctca aaccognant 540
 ggcttttaca tggaagagag 560

<210> 7611

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7611

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gacttccagt tccagaagtc gcatctggtg aaggagaaca cattctagca atgaatcctt   60
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agccctctgg agtagaaact gggacaggaa aggagtcgag aggcaaagga attctagcat  180
cacctgtaat tttctgaaac tggatatatt gcatttgccc tagggcattc tgcttcggtt  240
ctggtttttc atcttcaagc gccttctttt ctcttttagg tggattacta acagtagaag  300
tcatctgggg atgacctagt aattgaaaat ctgactgata tatcccagcc attgtggcaa  360
gctgccaag cccagcatct ttaaggagat ccaagaaagc atgaaacttc tgaaaagaat  420
tctcaatgct gcccaaaaca ccttcatcat ccaggatcat attgtcaat gactgtgcat  480
gaagggttc agaccaagag aaatttatat ttcttaactg ggcattttca tggtnagct  540
tactggctcg ttatta                                     556
    
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<210> 7612

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7612

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aataaaaagc atgaacatca ttttcatgta catatgtgta tacacaaaaa gatttgtgaa   60
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tggcccccg agtaagagat atcattctga ggaacaccaa gtggaagcct ctaaaactgc  180
ccccctccc agccaaactc tatgatcaag atagtaaag aaaaacaata ttgtgggagg  240
ggtagtgagg ttataagat ataaaaaagt aaaatatatt tcatatcttg taaaccctac  300
tatacatatt agtgcaggga gccaaaggcc catgggacat gacaaactca gcattccgct  360
ggaggctata tgatcaaaca gcaaactgtt tatcatgaat gcaggatgtg ggcaaactca  420
cactgccctg ccaccattgc cacagttacc atattaacag ggcttttnc tggacatgtc  480
    
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ctaggactta agctgggact tgctnggaa ggattttccc cnttactgaa tcccccgttt 540
ttccttgggn ggatctt 557

<210> 7613

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7613

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ttcttatatt cttagtcaca aagataacta cgttttacaa agtcgaaagg ttaataatag 180
cagctagcat gaattcagag cttgctatgt attgagcact gggtttaaac acatatgctc 240
tattttatta agtccttata gtaggaaagt gaagaataca ctagtcactg aagttccttc 300
agtgtcaag actcaagtgc actatagcaa gacaaacacc aggaaacatg taactctgct 360
tcgaatactt tagcaagtga atggcccagt ttgggaaagc aagacaaaca ctggatccat 420
aatggctttt tacacctgat tggaatgcag aaaaaatgga accactaact actaatatta 480
tctttgccag caggtgacag tacatacctg acttcagagg attttattgg aacctcatag 540
atgatggtaa taaaacn 557

<210> 7614

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7614

gaaaaagagc ctacagcacc cccacccta cctcaccact ccccaaacca gctcaagagt 60
taaagccagg aagtggggca nactggggag aggaggcttg tgtggctccc tctagtgttg 120
gttcaactgct gtgcagcaca cagcagtatc tgggtcaatg aggacatggt cctagccttt 180

ctttctccac caggaccctg acttatctgg ctggcccagc atggaggaga aggaaagcgg 240
gccgtgctgc cgggggggatt cctggatccc tctgcatgct gacagacagc tgtccacagt 300
gggtagccaa ggtgactggc attttgatcc cagctgaatg aagactggat ttgaatgcag 360
tgccagggct gttctgtaga caagagcgaa cagtaccctg ttcgctccct tctgcagtac 420
cctgaggaag gagagaggca cccagggcac gaatgcagac aacagaggga ctggccaggc 480
tatcccgttt tcacctgtct gtgccacaag ncacccattc catacttcat gtcctangcc 540
aaagctggcc atcctgggna ccccat 566

<210> 7615

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7615

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aattcttcca gcataatatt ctgatagcca gngtatgact ttggctttga cttgnttcta 180
cacaggggggt ccagtcattt atttctggaa cttgatcagt ctttttccag gtatataagc 240
aaatntttcc acactccaat cctactgnaa ccacgtatcg ttganaaggg nggagcactg 300
ggcanacgt gacagctgnc acagccccac ccacgtccag gactgaggag cagggggccaa 360
tgttgggctc aatacagtca tcagnngagt cgcacacacc ccagacaacc acctttttgn 420
ctcgactccc agtgaagaaa tacttgctgn caggactnca atcacaagac ccaataattc 480
tactgggcnc agaantaatt tggtngggaa ngcaaaagct taaaactggt tnaactaggg 540
gaaaatggga nccggttttc 560

<210> 7616

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7616

gagagctctg catacattcc cacttttcct gtcaaagtgg acaaaatgaa gagtctcatg 60
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 atgtggatgt gaaccaactc aacgtgctcc ccagagactg aagaagcggc gttttagagc 180
 tttggtttca gtctcttga ggagattttc agaaatggcc aatttatgtg caaaggtgac 240
 ttttctaggc acccaggaag gcaaatttaa gctccgagct gtatcaactg cattctgttc 300
 ctatcatcag aagtctcaga attgaacagt aaatgggtgcc tacttggctc cttgtcaaaa 360
 taagtctgca tggctctcac aacaaggcag acagctgttc gttccgctgg aaaggaaagg 420
 agatgaactt tgttttgcct agcgttttgg gaatcgtgac cacaatttaa tacaatcagg 480
 tgtagtttgg ttaaggaatt atcaaagatc atacttggct gtcanaatgg aattganggc 540
 cgataggcag actttgccnt atgctanccg aa 572

<210> 7617

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7617

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 aacctccacc tcccgggttc aagcgattct cctgccttag cctcctgagt agctgggact 120
 acaggcgtgc accgccacac ccggctaatt tttttgtatt ttagtagaga cggggtttca 180
 ccatgttggc caggatggtc ttgatctcct gacctcatga tccacccgcc tcggcctccc 240
 aaagtgcttg gattacaggt gtgaaccacc gcacccggtc tggaggctctt aatgggtcccc 300
 cagagtcacc cgctccacct gcagagtggc agtaccaccg taacttgctc tacacaggca 360
 acaaggccat tttcagctgt tactcagaaa cttgcttctt ggtgatatta ggtttaaaag 420
 acaagaaaga aatcttattc tacagggttg gagaaaggga aaattataac acaaaagccc 480
 acttcagtct ctgntgattc tgcaagagtc acagctgagt tctgaggccg ctttttttca 540
 ccagcccatt tcanctggca gcacaagg 568

<210> 7618

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7618

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atctccaaag tttatatttat atagcacaca tttatatgga actgtaacag tgtttcaaca   60
caagacattt gtgcagaaaa ataacaggaa ctcttttggt aggatgattg tctctgtttt  120
atacatgaaa gagctagtat ataaaaatag tttttaaacc aaaggtaacc ttctctattc  180
tatatcaaaa gtacaatact ctgagtggca aagaaccagg gaatctgaaa gaattacctc  240
cttttactaa tccaagactg gcagccaaaa ggaacactgg cctgcttcag actatttacg  300
attcaacact gaaaactcat taggagaatt aatctgcatt tgaattttat ggaatcatat  360
actgtgtgtg catacatagc tgtatgtaca tctgtgtgca tttctgtgtg cccatcacac  420
gaactcactg gcagccagtg gctagagaaa ggcaagcaaa ttttggtgn atctcaagcc  480
tgagtgtatc tcacgacaga actggagagt cnngcngaaa agactttaac attanaggaa  540
ttaacttccc ccnggacacc ggcctttctt                                     570

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<210> 7619

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7619

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agagaagaaa acaccatctt taatcaaccc gcctgcacag aaaccaggag agcactcccc   60
tccttgcaag gtcccagtgaa aaagagaacc tgggtcccctt gcaaaaacca tcttataaaa  120
acaaaaggct tcaaagcacc agtggctaca cccgttgagt agaaaggggc ttggggggaga  180
gttgggggtga gagaggtgag ggctggaggc agggctggcc cagtgaaggc cagtagctta  240
gcctgaggga gctgcccccc tctcaagctg taccaccagc ctgggagctc catgcctgtg  300

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ggggccagag gaactcctgg gcctggctgc ttgcatttgg gatggtgggg tggggttgcc 360
 agccttgctc aggatatttt ggccttagag agtaggggaa tgatagattg gagggtagtg 420
 gganaagaac ggaatgggtca ccacagacag gcttaagtgn caaacatntg gnccatttng 480
 gggcccccca antnctcatg 500

<210> 7620

<211> 372

<212> DNA

<213> Homo sapiens

<400> 7620

ccggtatcca ctggaagttt atttcttttag ggttctatcc caaccagtcg cttaaaaacc 60
 aagtaacaca gacctgaggg gagggggctg gggactgcac ctccctccta ctcattggngg 120
 acagcagtgg ggactagggga ggggcaggag aggtggctga agcaaggcag cagtaatggg 180
 gccacgacgc cacagagcca gctccgtcct ntcccanacc ctggtgggag tccctgtggc 240
 ttggggtggg gagtggggga cccaccccag gccctccctn tcccttctc agacagcctc 300
 ctttngggct caaccattt cttccgcagg agacttgagg cacacagana ggangaagtg 360
 gnanaggang ac 372

<210> 7621

<211> 504

<212> DNA

<213> Homo sapiens

<400> 7621

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 gccacctcca cctcccgggt tcaagtatt ctcttgctc agtctcccaa gtagctggga 120
 ttacaggcat gcgccaccac acccagctaa ttttgtattt ttagtggaga tagggtttca 180
 ccatgttggc caggctggtc ttgaattcct ggcctcaggt gatccgactg tctcagcccc 240

ccaaagtgcc gagattacag gtgtgagcca ccacacccgg cccccagcaa agagaatttt 300
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 tcaaactgcc ttgctactct gngattggag aatatctgat caaccttntg gganccaana 420
 aagtagttgg gaaatgggaa ggtgggccaa naaaagaagg nagactcaat cggctggggg 480
 ttaccggggg attcaagtga ngcn 504

<210> 7622

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7622

catctgttgt ggtttttccc tgatctgaca gctcagcgga cttcctttct ggttcctgag 60
 aaactggaga tgtgggctct tcctcttcct cctcaggagg caggggcagt ggctggagggt 120
 agtaactgcg gggcttgggc atgggggtgtg tgtgatacag caggaggtga tgctgctcct 180
 cgtacttgat cactcttcgg tccactcgga ctgtcccaaa ccaggcccag gacaaaggag 240
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 actgtcgaac tttgcaatac tttctgatcg cttggctcct agctcttttt tcaagtttct 480
 ttactaaaat catgtatgcc cccttggctc nttaaatecc cccaagggga tcatttgata 540
 ggncaaaaagc ttaccgttcc attggntnaa acnccc 576

<210> 7623

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7623

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gattcacgat gtcgaatatt ttttcatgta cctgttggcc acctgtacat cttcttttgt 120
gaaatgtcta ttcagatcat ttgcccattt taaaaatcag attatttggc tttttgccat 180
tgtttcagct ccttatatat tcttgttatt aatccctcgt cagatggata ttttgcaa 240
gttttctctg attcaataag ttgtctctt actctgttgg ttatttcctt tgctgtacag 300
aagcttttta gcttaatata ataccatcta tttttgcttt tattgcctgt gcttttaagt 360
ttttacctca aaaaaatctt tgcccagaac aatgtcctga agcatttcca caatgttttt 420
gcctagtagt ttcacagttt caggctctac atttaagtat ttaatccnca aaataagaaa 480
gagatttgaa anggatactt cagtcacngc atagnngctc acacctataa gcctggcact 540
ttggganacc aaggcaggag gacacntnn 569

<210> 7624

<211> 393

<212> DNA

<213> Homo sapiens

<400> 7624

aggtcagaga cagctggatc agctccagcc acatttatta caaaatagtg accgcagttc 60
tggtatagaa aagatccctg acagcccagt acacctgcaa cggccccac cccacagagt 120
tcctctctca ggtgcctcag gtgtggaagt tctcagattc gaaggtttcc tgccaggagg 180
gcgctgtacc gggcagttgt gaggggcagg taggcaccta cagcctggtc cagaacgtac 240
agtgggtcag acaggggtgct ggggtcgaag ccttcatttg ccatccgaac tttctgctgt 300
ttgaaggctc ctgtggtggc caaagactcc tggagcctga ggaatcgggg ccgggcataa 360
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<210> 7625

<211> 508

<212> DNA

<213> Homo sapiens

<400> 7625

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atatgcaca catatcctaa cattttctac tggataatat aacagtaaca gaaaagcatg   60
tgttggtaca aaaaagataa ctatagaatt gaccaggctt attgaatatt ttgnggttcc  120
catgtgttaa cactgagtaa catcctcaat ttttaagnac tttaaaaatt gttttgtttt  180
tgaaaacttg ttttaacttaa cgatatttgt ttatagagtt aacataaatg tttgaggaga  240
acattacatt ctatacaagt gagggcctga cactntgaag ctgaggtcac agtttgnatc  300
aatatgataa atattcatta tttcattgna tagactgngt atatgaaatt cagtaatat  360
ttactggtaa caaatctaac angataatat gttaagaaat accaaattat atngggggct  420
ctggcaaagtg aaccaaccg nnaaaaattt gacattnccg ggacacatta ccaggtttgn  480
cnaaaagncc ttattttttt agccttac                                     508

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<210> 7626

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7626

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gttagaaaat taatttttaa ttgtgccgct ttcaaactat actgaatttt acatttctaa   60
agatgtaaaa actcaactaa tagaaaatat acatgaccat tctgtctaca tagataacag  120
aatctatgaa tcttgaaact aagtacatca atttcaaaaa gtattgggtca tttaaacaga  180
atcaacaatt cggattgaca agaactgttc aaattaattt gacctgtaga ttctgagcca  240
tgtttttatt aaagtcagat ctattcctaa atacaaaata tttgaagat ttattaaaac  300
tgaatattac aatgcaaggt aaattaagac taaaggcaca taaactttgg tcccacctgg  360
gttgtcaagt tttagaaaac tgccacaaaa ttaatcttcc tgcatatttt cgcagtacac  420
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<210> 7627

<211> 518

<212> DNA

<213> Homo sapiens

<400> 7627

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cttcctgga gccttgttt cttggtattc tgttgctaca tgtttcaact ctgggaggtc 60
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tttcaggatc ttgctattgg ggggtggcaca gacgggatta aagaagctca atcctgggggt 180
cacctcggtg ggatcctcca gtttgaagga gccttcggaa tcctgggtcc gttcaacagt 240
gccaagcta tccttgccct gctggcggt cgcacacttt gtggggncac aagcaacagt 300
ccacaccaca ggctgacttt tgcttctgc accacactg cttgnttnca caccaaccct 360
tgcangaaca cccttgaaat gttcttctg gacacctta ctaaatttg tggttncaa 420
ttccctcggc attccccent aataatcaat naccattacc attcctnang ctcaattcac 480
cagaaaaggc ntctgnaaca aaaattttaa gaaccctn 518

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<210> 7628

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7628

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ggtgtgaagg catgtattct ttggaaatg gcctttgaga aaagtaacca gggacctgaa 60
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tagctgctca tcacagatgt agcctagttg gtctgtatta tccttgatg acaacggtgt 180
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ggccagactg aggggtcatt catggaaggg caagatgtgt gaactctaaa ggggatgtta 300
gcactaaaga ctgccagcc ctggtcctg gaggtactat acttgatact gtgccaagtt 360
tagcagtagc ctgtaccatg gatcccatca ggtgaccaga ttcttgcca aagcaaagtt 420
gagagaactg gccaagttct cttcagcact tagcacctaa cccagacatg ccccttaagg 480

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aatggggaaa gtttctgnca cccagcacaa aaggctcaat gggaagttga atggccaag 540
aaaaactntg gccagtggt tg 562

<210> 7629

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7629

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cctactacaa ccgggtacac atcctggggg tgagcacaca gcaaaatggg gtgggacgtg 180
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ctgtgcgtga ggtgctccat actggcctgg ctatgctggg tctccctcca ctgagccaca 360
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agcaaaaacc cacgggcaaa ataaattggg actggttggt acaaaagtct ggcttgncat 480
gggggaagtc gggcatattc ttgnaagac ttcacttaac cttnagtctg naccgacnta 540
ggaaccccng gcacaacttc ttccctta 568

<210> 7630

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7630

cacgtgtgca cagcgcttta caggttaca agtgtttcac atacatcatc tcatcaattc 60
ctcacaacag ccctgtgagg taggcagggc agggggtaat gttccattt gtacagatgt 120
ggagactgag gccagagag gccagtgacc tgcttgaggc cacacagcaa gtgagcagca 180

gagctgggac cagaggctgg ggtgggcccc acctccagcc cctggctctc tccactgact 240
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 ctcccccccc ttgcagtggg gccgcctggc agcccagcag acaggctccc acccccatcg 360
 gcagacctgt cccctccacc tgcgcctgc aaaaagccag cccggagctg ggcccaggcc 420
 tgccccctag cctgctcctg atggtgcctg ggnccggntg gcaagtgggt tgggctggaa 480
 cctctttctg tttcctgagg gatccttccc acttgggaaa aaaanaanaa gngngaanaa 540
 naggaggagg aggaaaaanaa aant 564

<210> 7631

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7631

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 atatctagtt tcatataaaa ctagtattat acaaaattca gtttctaagt atcactgtcc 120
 atcagcaact tacaatcaaa taaaagacag atcaaagtat aagaaaattg tagacggtaa 180
 tattttccta atgacctagt ctcccatctt ggtttaataa tgagaaattc tagtagatag 240
 tggggatgga gctaaataaa cgaaaacgta aggaagttag agaacgggga caaagactta 300
 aagatttttc aacgtaagca ctatttctcc tcaaccttgt tcagttttta atggatcatc 360
 ttattcaaca ggagccacaa cctgttttga ggaacaacca acaactgtgg gcctactgga 420
 agttcaaaag acgattgttc ctgtttctga ggttgacatc taaatgcang aaaattncan 480
 tacgattcat actgnacaat cntcaaggct acaactggac cagaaccttt ttcnttccaa 540
 agaacctgaa aatgatgcgt cct 563

<210> 7632

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7632

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cattcattga ggaaaaagac agtttat tcc aaaacattct ttaatagtcc taaactgatt 120
ttgtctatca gagcaaaaagg aacaaaggta aaaatccacc tgaaaaaaga tctttgtatc 180
atggaaatta tgaagctgga tttcttagac attaaagaaa ttcacagacc cacatagttt 240
aaaaatttaa tttttaagat taaattttca caacacatta tgactgtaaa tgagttacct 300
gaataccaat tattacctct agttat tttt agcaaggagg ctggacttca ctttacttaa 360
tgctagctta taaatttaac tttgtaaaat tatagtggga aatgtgtcct ggctagctgc 420
ctctgccccaa agcaaangca tctcccctaa gtgccacagt tctatctccc cgncttggg 480
ctccactgga acttacctgg gatccttntg gcccgaagcc ttntaataag agctcttgct 540
caatcaaaag ggggtg 555
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<210> 7633

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7633

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tacaggcgta tgccaccaca ccagctaatt ttttgtat ttagtagaga cgggggtttca 180
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aaagtgctgg gattacaggc gtgagccacc acgcctagcc accaccgact ttttttaatt 300
aacaaaagca cattgggtgta caaaaagatg aatctaatat cgaattactc aagttcaa 360
ccaagctcca tcacctgcta gatacagtaa ccctcagcaa gacactcaag gttgagtgcc 420
ttcaaattat atctcaaatt acttatctgt aaaatggaga taatagtacc cactcacaca 480
aatggaagaa caattataat taacttggtg aatggtaact attatcttac tggcctgatt 540
ccagaatcat catt 554
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<210> 7634

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7634

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aaataccatt ctccatacaa tttattgtca gcatatttac ataggggagt gttcacactt   60
taaaatgcaa ccacaatttt caaattgttg tcacaatttc tccaggatta ccctcattct  120
cattttccga cttttggcca gcttcacatt tgtcagattg ttcatgagcag ttctcaggca  180
attctgatgt tgctctgaag gagaataaaa gttaaaagta ttcactgccca cccactctgg  240
gacaggcttg gttgcaaaga aaatggtgtt cctggcgctg aaggataact aggaaaccca  300
tcaggctgag ctggatagct ttccagagcc gaagctgaat ggacctgctg taacaatgct  360
gactgcgcag ccgcattatg ctgtaattct tgcaaggatg attgtgaagg attctgagga  420
aaccagggga taccggggag ggacaaaagg cctggaaaaa cagaactncc tgcacttgga  480
agtcagatg ataaccggtt gtgcaacaag ancggagttg aaattggaac tgatgcttaa  540
ggcnaatcct ggaggactgg aacttgggat gggctttgca accnc                      585

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<210> 7635

<211> 521

<212> DNA

<213> Homo sapiens

<400> 7635

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atttactcag tgaatttatt gtaaaaataa agaaactcaa ttattccagt taatggattt   60
cacgttaaat agtttaactt tcaatgggct ttctgaagag ctgttcatag gatgatattt  120
ggaagagtcc tttccttaag gaaaaaaagg gtgaacaata aataaagagt tacttgcggt  180
aacggtcacg ttatttcatt aaaagagagg aggagcagaa atctatgaca tagttgccca  240
acatggcatt tatctgctgc aacagaaagc tgtaacactg gcgggcattt cacagtattt  300

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gcgcatagta aacttctgcc attgttaaag tctgagttag aattatcaat gaattctttt 360
 ttttttggct ttttaaattt tcttgntttt aaaaaatgga tttggggttt gcagggtgga 420
 acccaaacc agtctggcca cgttccgtga aagtgtggg ccaaattggtt cangttctgg 480
 tccccttggg ccngnggggg gatggggtgg gggcatgnnn n 521

<210> 7636

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7636

gcttttaaaa atcaaaattt atttcatcaa gataaaagat tacaatagaa ttcttcattt 60
 gntaaatcag taangatttt taaacaatac tcaangatga tattcattga aataatccaa 120
 tacattaatt tggagagtat gaacgcaatc tggcaatata aaccattaac tatgaaaaca 180
 ttctatgcct ntaactcaat aatcactatt ctgggaatcc taagaaaata ttcttatata 240
 tggattttta aaagctttat gggnaaaaac ttttactgga anggtatttc cacttttta 300
 ttaaaaaaat tttccctca ttttggaggn aataaatatn ctgnaaaata tttttaaagn 360
 aagaaaaagc ccccaaaata taatcccatc ccagaaataa ccactcttaa cactttcaac 420
 ttatctacca tttttnecca cttaaaaaat tatgncccga agccacagna ttttcaccaa 480
 aaggccatcc gggccccaaa cttgggttct aaaacccttt taccttaaaa agggacccag 540
 ggntccttgg anaacggntg gtntanggg tag 573

<210> 7637

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7637

aaaggttggg agatatttat tttctttaaa caaggtcata aataacaaaa aacaaagtag 60

gtcccagact ccgaccatg cagcaggaca ggggtgggag gttgttgagt ggaaagggtg 120
 agggggctac acatcaccta agacagtcac agaaaagatg ggcttcagga cactgcccct 180
 tcctgccctt ggaaatggcg tgcctgggca ataggacag gccacagtgc tgtgtcgagg 240
 cagctggaag aaggcaaaga ctggggatgc caggctgtaa tgtttctgtg tggagtgatg 300
 tgaaatccac aaatggcaaa gagaagctgt aggtttgaag aggcaagggg gcactgcaca 360
 cctncaggaa ccagttatga aaatgggttaa atttgatgat taaaaacaat tccatagctt 420
 tggcctgngg ctttgtgcat gggctggatt taaccctggg ntgctcttgt ggcaagtga 480
 ggccccagaa ggccctggaa ccacctgggc ttanccaagg caagtgncca aaacttttgg 540
 aatggaccng gggctntncc aatggangg 569

<210> 7638

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7638

ccaaatatta tcccaaata gttgtttaca gataagggtc aatacgaagt caaacattct 60
 acagaagaaa atcgttttta cagacattaa gaataatttt aacagaagaa aaagctcaca 120
 tctatctana tgtggctatg ttccatggga aaaatttcag catccaaagn gcaaagaaaa 180
 aatgactgta gcttttctta ccacaaaata ttgacaatct tcccttatag cctactcttt 240
 attgttagtt gggatgccaa aggatgatat attgaccttt anaagttggg ctccactgga 300
 caaggttggg ggtatggggg ccaagcatca gaatgaattc aattttaaaa gaaaaactgg 360
 ctttgacccc aaatgaaccc aaagttcagc cagcggcaca tcagagataa atccagttgn 420
 actttcacat ttacaagggt gtgccactca acactattaa agacctaatc atcccaatca 480
 aaagctccca tacttccata ctaagtctgg cctnaaggct tcccatttta tgaaagcttc 540
 ctattatgct taantcataa nggggan 567

<210> 7639

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7639

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cagagggctt ctcctttttt aatcaatgac caacttatcc agctttggaa atctggacaa 60
agagaaggct gagaggaggc ctggtccagt gtctaagggt ctctgagtga gtctgtgtca 120
gcatgtgggc cccagctggg cctgtccatg ggttgggcac agcagtttcc tgagtaagag 180
ccagccccac cctcaggga gcattccagc ccaaaaagaa atccaggccc tccaggttcg 240
gcctgttttc aaggccctca ggacagtcaa taaatagggt agattctgag ccaggcctgg 300
aaagtgaggg tattcaaagg gcaggatgag ctgctaggga tcgtaatgat tcccagggtac 360
tctcctgccc ttctccaaca aggaagtaaa taaatagact ttttaactcag gaaccgggtg 420
ttggaacagg ggaacccttc ccttggaagt tagnaaatta agctcatggt aaaaacaagg 480
aaccccaagc ccttaccaga tntacaaatc ctacaggatg gaagggaagg cttgccacct 540
gggggtccca tncagcccc naggtcctgg gggaggt 577
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<210> 7640

<211> 503

<212> DNA

<213> Homo sapiens

<400> 7640

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gagacgaagt ctcgttttgt tgcccaggct ggagtgcagt ggcatgatct gtgctcactg 60
caaccgccac ctccagggtt caagngattc tactgcctca gcctcccaag cagctgggat 120
tacagacgcc tgccaccacg cccggctaac tttgttgtat ttttagtaga natggggttt 180
caccatattg gccaggngg tctcgaactc ctgacctcaa gngatccga tgcctcggac 240
tcccaaagtg ctgggattac aggcgtgagc cactgcgccc agcccaaatt atatttttta 300
ataactaata caaaggtgaa gtggctcctc ccaagtagca gtgctgccgg ggcctggccc 360
aggcctagcc ctgggctcac ctntcatgct cccaagccaa ccctgagctt cctggnntcaa 420
gggtagacct ttcccttta aaggtaann gtccaggag ctctatgana attgggggaa 480
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atgangngaa cccttacttc ctn

503

<210> 7641

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7641

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cgtctcaatt gtttattcga ctcacagtca gtgcacacac tctaccatcc aaaagtcgaa 60
gctgtgacaa tcgactgcta caggcagtgc atggatgtgt aaacaaacac aaatgaaaat 120
gcaaatcaga gtgggcgggg ccaaggccca ctgttacatt cacagcacag ggtaagtgca 180
aaagaacagg atgtcaggat ggggggcggg gagcacaggg tccttcctgc cctggaggct 240
gcctccaggc atcagcctgg gaggtgggtt agtgcccatg gaaccctcct gcccaggaag 300
ctgcctccgg gcatcagcct gggaggcggg ttagtgccca tggatccggt gtctgggaag 360
ggggccacag aagatgggcc acaccagca tcattctctc tctgnggtgc gccctccatc 420
cccagacccc tttncattt angggaaaag ggccctgggc acangagcca gtcctntgac 480
ctctgagtn gggaaaccca gaagggaang ggtttttctg naggcctttt aaacttggaa 540
aggccnaanc ccc 553
    
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<210> 7642

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7642

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cattaataat gttttatttc ttcaataaat taaccttggc tcacaatgaa catttggttt 60
ataaacttta atttcttaaa actttttgac tctttggtaa taatgcttag cttattgtac 120
agctgtacaa aatatttctt tataatccta ttctataagc ttttttatat atttttttta 180
acatttgaaa aacctttttg tgaaaaacta agatataaac acacacatta gcctaagcct 240
    
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acacagggtc agaatcctca gtatcactgt ctccctcctc cacatcttgt accactggaa 300
 ggtcttcagg ggcaataaca cacatgaagc tgtcaccttc tatgataaca atgccttctt 360
 ctggagtact tcctgaagga cctgtcagaa gctgttttac agttaacatt ttaagtagta 420
 taccctaaaa taatgataaa aagcatagca aagacncaaa ccagtaacat attatcaagt 480
 attatgnatg ccctggacat aattatatgg accatccttt atatgactgg caccncnaac 540
 gngggtaang ggtggggctc aggtttacaa ngac 574

<210> 7643

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7643

atgttttttc tttttattta tcaagtttta ttctacagct aaatttcaga tttcttttac 60
 atatagacct tgcaaggcac ggtaagaact gagcacttgt tttatttgag ggataaaggt 120
 gtagaaattt tctctttgaa ttttataagg aaaggctggg tacagtggct catgcctgta 180
 atctcagcat tttgggaggc tgaggcagga agatcacttg tggccaggag tttgagacca 240
 gcctgggcaa cacagtgaga ccccatctc taccaaaaaa aaaaaaaacc ttaaaagata 300
 ataagtatct aattctttta tacttgcatt tctctttgga tcaaactca actttgtgag 360
 aggtcataca tttctacagg gttaggagta ccctgcataa tttatacaaa tgtaaagngt 420
 atattaaaaa aaaaaagggtg aaagtacctg caatctaaan gggtttcttc cctanaaacg 480
 gcaccttttg gnaagggatg acccattttc ctatttatga aagcagggtt cccntgntan 540
 cctnccgga 549

<210> 7644

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7644

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tntttcgaac tttcaaacag ttgggattat ttttgtttct tatcatccca attatttgct 180
caagtttgcc tccattgggt cccgttcana gtttcttggg ctgcttgtag tagtcacagc 240
tccacttcca tctcttctca ggaagagggtg ggcacaagac acatntgagc cccttagtat 300
tgngatggng gccaggaaat gatcaaagg tagcatttag gaaatcagca aactaaagcc 360
tcaaatcaaa ggtggacaaa tgcattctca actcaaacag gttgggtaat gctttcataa 420
gatcattatg tttttgggac ccnggcccc aaatttaata aggctacaac caggattcng 480
gaaagacctc cagctttttc ccaaangatg gncaagggca aaccaaacna aaaggnggng 540
acccaatnga ta 552

<210> 7645

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7645

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tggttacaat cttggctcac aactggaagn gttacatact ttttacttcc cctcaatttt 120
atTTTTCCCC aaggttccat cctaagatag gtagatctta tataaatata tatacnctc 180
tgtataagta tggcctatag taatgaaaat atatagtaca ctcttcattg ggtagtacct 240
accatgccag gccaccaata ctgaatgcca atgngctaac gtatgtccag ggagagaggc 300
tgtgtgtgtg gtttacaagt gctgcagcac cagggaagcc ccactggcac aggtgtggcc 360
tcagccggcc tcagccagct ccctgaaatc atggccaatg gcagaaacca tagcactagg 420
aagggaangc caacttntcg gggctctggaa ggccaaagga aagcaaactg ganggggctt 480
gcaattaagg ttaggggaaa ttcttntga ggaaggaaaa gggtttaatn ggggggaaaa 540
nccttnaatt tanggccncc t 561

<210> 7646

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7646

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gatattttca taacattttc tttaacattt aatagaaact atatacaata aatttttact   60
atattttaca taagatagca accacagaaa ttacatagg ttaaaagcaa gacggataag  120
gaggaccag tcctgtgggc tgttttctca gaggataaaa agccagagtt caccagggaa  180
aggggttaaa gactgcccaa ttaagtagag gtgaagaaaa gctaaactgc aggtcttcag  240
atagagataa ccgatattag ggccatcagt atctcaaaga ccactcaca agacagctcc  300
cacctagcta ctttaagtga ttctatcca tgacttggga aatcccatta caaagatgtc  360
actttccttt taggtatagt cccaaataat cccagaagct ttgataggga ttatctctct  420
ttctcttcct tgccctgagt ggggaagaaa cccacggtcc acggtcctca aaattnngnt  480
taccgttnga ctataatact caatccngaa gaaaaaccag ggtaagctng ggttgccggg  540
gttttgngag anatgatccg aaatcctt                                     568

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<210> 7647

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7647

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ggagacggag tctcactctt gtcacccagg ctggagtgca gtgacacgat ctcggctcac   60
tgcaatctcc gcctcctggg ctcaagcgat tctcctgcct cagcctcctg agtagctagg  120
attacaggct cctgccacca caccacacac attttttgta tttttagtag agaacgggaa  180
ttgccatgt tggccaggct ggtcttgaac tcctgatctc aggtgatccg cccgcctcgg  240
cctccctaag tgttgggact acaggcgtga gccacatgc ctggcccaa ccagaacact  300
tctgagcgtg gaagaggatg ctgttaatta ctcaagacca aaaggcataa aaggagacat  360

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atgtccaccc aagtgataag gcagtttggg aaactacatt tcccagtatg ccctgcccct 420
 tgaaagttaa aaatcttaac tggcacagag caccctggga cacctgtggt tagcaccatt 480
 taagaagtna aaaggatang ggttgggntc tgacntgaag ggctttcccn ttcatgggac 540
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<210> 7648

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7648

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 gagctgcacc ccatcaggtc cctgtgtttt ttcccagaga tatgagataa ttttctgac 180
 atctgagctc ttgctgccat ccagggttgt gctatccaca ggaagggtca gctctttatc 240
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 tttgctgctt gggctgagtg accactcata ctggatgatc catgatcatc aatgcttggg 480
 ttcccaaaga ggtgacggag ttttgggcaa gggggatcac ttggttgggg cctgcgttgg 540
 ccacangggg gaatccccaa gttttgttnc tn 572

<210> 7649

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7649

acaaaagcaa taccggttta ctaaagacat tttcagatat ttacagatca atttctcaca 60

tctatttcta taacttgact ttgaagttta ttataatcat attactattc tgaatttta 120
aaggtccaga gaatgtaaac aaattctatc tttaaaaagg cttactgaca actgcagact 180
caaagtggct acaaaaggaa aagtattgta aacatttgct tcttaactct aggcactaat 240
ctcctaaacc agttcaactt gataaggaaa aagacttgag attcactcat ttataactta 300
gttagcaatg tcattgatca ttaaagatat ggaagaataa tggaaaactg gatttttcac 360
taatgcaaaa ttaacaacaa tacctcgacc cccattaaat atacagatgc caccatctct 420
tccatcatgg attttatttc ttcttagtgt agggattact atctgnctta atccagactc 480
cagccattgc attggcaaatt atttcattgg cttctataca gcctanacca gaaatttta 540
actaggaatt nccccattct ggncctccca natttggtgg g 581

<210> 7650

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7650

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tttgacatgc aacagggagt agccacgtgc tcgctcgctg gccactgtgc ttcgaaacgt 180
ttttccagcg gacggctgtg attgcagttt tcagatgtgc tctggcctct aaggacgtgg 240
ggccgaggcg gtgtcctctg tataaaaagt gctgtcctgg gagcttccca acggacatct 300
tggggcatct gagtgattcc caggaggaggc agcttggcct tcctcaggct accactgcag 360
ccaccgccgg ccattctcac cagcaatcaa ccaaaaagca tcagagcctc tgtgaacctg 420
ctgtgatggt aagaaccaa tgtttcctaa gctaagactt gtatgcagaa cacagaaaac 480
tgcanttagg aacaccctac aaaattgacc acagtatttt ncaaaaatat cntttacatc 540
ctttaaataa ttacaaaag ctccaaaatc ttnttaccng gaccctg 587

<210> 7651

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7651

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gagatggagt ttcactcttt ttgccaggc tggagtgaag tggcgtgac ttggctcact   60
gcaaaactcca ccttccaggt tcaagcaatt ctctgcctc agcctcccca gtagctcgga  120
ttataggcac cccccacat gcctggccaa tttttgtatt tttagcagag acgggggttc  180
accatgttgg ccaggctggg ctcaaactcc tgacctcagg tgctccaccc gcctcagcca  240
cccaaaatgc tgggattagg ctgctctttg agagctttac aaatttattt aatccttaca  300
atgactctga ggtagatctt cttgtctctg tttgtagata agaaaactgg aactgtcaag  360
aaacttgctt aagatcacag agtgcattag gcttggatcc ataatcaaat tggaaaaaaa  420
gaaaaacaca aagaacaatt aagactccaa agccctaag cttagcttt ggatcctatc  480
acactgnggc attatatata taaaacaaaa aactttataa taaagagaaa tggattttnc  540
caactggggg ttttcagata caangggctc atgaggacnn tttgtaaa                588

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<210> 7652

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7652

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aatcagtgtt atgtatacac atggtaagta actccatggg atagaaaaac tgatgatgga   60
attcaatagg tgcactctgc ctttccattc ccaagcccac gctctagagc aagcctggta  120
tagcttttgt tttcagttct tctgagggtt aaataaaacg agtaggtagt tttgtgaatt  180
aatattgcct tataatttta agtatagtac atgaccaggg tggagtgtt tagatacaga  240
tgtatgagtg attagttgca ggaaacacaa actactgtag ctagccacat ttaaaaggac  300
tgtaaaacag ggaactggat gcttgcaata ttgtcacaag ggctaggagt gggttccata  360
ctgggtctcc agaattaact ccagaaaaa cactgcaggt ctgtctggct tgccagaggc  420
gctgctaccc cacaataatg agaaagggtga agaatcaggg ttgcatccac cacgccactt  480

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gcctcaacaa ctgactgcaa gaattctgct gcagggaaan tnaatggctt ctttaaccaca 540
catgccanca gaacacagcc angangaaaa tgntnt 576

<210> 7653

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7653

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acagaaaacc cttccccagg gctgtaatgg gcatttaagt ttcccaaacc cagggacaac 180
taatttttat tacctattga atagaaacaa atggatttta atagtcccc tcccctatag 240
ctgaaaaact ccacaaacaa taattgactc tatctacatg atctgttgac tcacgccaga 300
aatagttact aaaacactta gaattgtgat gttcaaacgt gcctctggct acttctgggg 360
ggttatttgg tgttacgcaa cgacatattg ccagcgacat ggtgaatata ctgnctttat 420
agtcagcaat gtttagttga ggctaatacac gtatttattt tttcaaaagg gtaaattgtaa 480
gcttttccca gctgaaatat ntngaaaacc ccaatgnttg aaccagggtt aagcattggn 540
ggtggcaccg nantgggctg atgggncctc ctg 573

<210> 7654

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7654

gcatgtgcac acatgtatac atttattgca taaaattcat catagcactt tccccatat 60
ttttataatc caaaaggaaa atgattcaag aaaggatttc attgtgctca gtttcaaaaa 120
atataaaaaat ggacatcaga ttagagatac aagttcatac gctgaactga attgtacata 180

ccaactgcct ggctatggaa acccgtgact tgacttaggg gtgctgatga catgatctcg 240
 acaagaaccc cctagcaact ctcaggtgga ggcagcacag ggatgcgggtt cctggtgagg 300
 agggtcctca ctcggtgacc aactgcctg ggctcacagc tggagggctc acccatgagg 360
 gacacgggtg gacacccact gcttcacatg cctaattcac attagaaaca tgtaaagcca 420
 ttcagtctgt gcaataaaga gatcctgtat gaaatccact cattcctttc taacagctaa 480
 agtcaaagg catactggac ccttgangga aaacaggaga acctgaaatg ggaagggaag 540
 aaagggttg cacnttaca gagcaaatg ggcaacngga ccgggan 587

<210> 7655

<211> 462

<212> DNA

<213> Homo sapiens

<400> 7655

aggtacacac agtaaagttt attttgggtgc atggtatact tcactccatt aaaaataaat 60
 taatcagcaa attcctgcct ggctcagctc tggtttatgt aaatagtgcc cagctgtaat 120
 gagttacaag gngttattat ctcacacaca cacaggaggc ttactctag agctccgctc 180
 gcaacaaaag catcttaaata aaactgagag aagcgggttg atttgtaatg ntttcacaga 240
 agtgggatat acctcaccca tatagagttt ctttataatga ctcatcttat agcaagttaa 300
 atgaaggaag ttttgatggg gggangggag gggcaatatg gttccccacc ccctttcttc 360
 actttaagaa aatcccccaa gagatgacct cgactgagg ggaggagggg ctgggcctca 420
 ggngctnana ccaaggnggc tctgcancac tgcttcanaa nt 462

<210> 7656

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7656

cgagtaagct ggtaagtggg ataataggaa tagtagaaga atatgccata gctatggctc 60
aagaatagga ataagaaaaa tgtgcagtag acgctgtttg tccgacgatg atgaaagtgt 120
gcacggccgg ctgtcctccg attgaggggc cttgtcaagg cctcanaggc agcgaggtca 180
cagcctgggtg gaggggtctgg gtgtgcgctg tgtccatctg cacctcacag acaccagtca 240
tgggggggatg aaaccgggccc aagaacacat gtgtgcacag gctgtgtgtg cctgcatgtg 300
tgggatgcgt gtaggctgtg gcgggggtgg agatgagggg taggacagaa aatggcccat 360
ccaacccac atcctggccc ggctgtcca aggtccctgt ggggcnagg gtttggtgc 420
cccanacgtg acagggactt ggcttnagg gtcaaggacc tggctgggaa caccatatt 480
gaaaaggaac nnaaaccagc ccttgaccc tnnanacccc cagagcttnc tgg 533

<210> 7657

<211> 485

<212> DNA

<213> Homo sapiens

<400> 7657

acatgtctgg agatgttggc ttggttatga attcaaaagt tctcccagag ttcttgatga 60
tgattcatag agaaatcttt caatgctatc ctcttccaaa gtaatttcca tgaatgtctt 120
tagttttctg ngaacagngg ctgcaacctc cctcactttt gagcttttat gtttacctgc 180
attaataacc aggataatat gcacagcagc cgtgaggcac acaatgcctt caatatcatt 240
agaagccaca catgccttta attcatcaa aaatgacctg accacattcg aagactttat 300
tattattcct attaaacacc ttgaaaatgg ngggaagatc agaaagatgc tctggagggg 360
taagctcttc tacgtcagaa accttccgta actggngact tatctnaacc acaggccan 420
cgatcagagt agaaaggtcc ccccgngca caagggtgnc tnggtgcca gactggacca 480
gcngt 485

<210> 7658

<211> 503

<212> DNA

<213> Homo sapiens

<400> 7658

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gcaattctgt aaggtttatt gaatgggtgg gtaaaaagtg aacgacagct acaaattcaa   60
aaataaaaact cttgggttatt aaagtcattc caggcatgga cagagggatg cgaggctggc  120
cttcctgtgc cacggtcctc tgaggcagct gaagtctccc atgtctggac cccgaatctt  180
gtgcagattg aacagtggat ccggggtgct ctgagcaggc agcaggagagc agctctgggtg  240
acgttcatg tggtagcctc actctccatt ctctgcccct ctcgtgccc aacacaccac  300
caagagattc acggtgagaa atatcagcaa acccagatcc cagatcacca actccatggn  360
cttaggactt ccttggactg nccttggatc taangctgag acctacaag caccgnagct  420
tancctcttn ttgaanacac gttacctggg gccctgggca cacaggacaa angtcaactg  480
acaatccttt ggtttctgnn tca                                           503

```

<210> 7659

<211> 471

<212> DNA

<213> Homo sapiens

<400> 7659

```

caatagaaaa aacattttatt atatatgcat gcaagaacac tacaaagagt agctctctga   60
acagcaaggg gtaagggttt acagatcagc tttatggtgt gtgtcttaag gcttcagaat  120
gaaactacaa aaagttctga taaggcttat ttacaatacc ttgggaggtc ctagtgctaa  180
gtgcccttat aagaggaaca ctgagaggag ggttttggca gctgaattct cggttaagacc  240
tgctttactc atcaaagttt agctaaggct ttttgtctgc agctgctgtt tgttcagata  300
ttctcaaagt agacttgat catattgatg ggttgtagt cccttcattg ccctatttga  360
aacttgacat gaagtttcac tgacaaggag ctgtgctgat tgctgtggan ataaggctag  420
gttcanaggt tggganntaa gggatctgcn anatttgcga aagacncgan c           471

```

<210> 7660

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7660

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ccggtagtaa aacatttact agagagcaag cagaaaggaa tgcacatctt aaagaaacct 60
tcacaaagtc acaaaagtca aagtttgtat atttcttttc ctttttataa acgataaaca 120
aaaatcatca aaatcatttc agcaaaagac ttttctatca ttggggcaag ttaaaaaaaaa 180
tacaatgaaa tagaagacac tttaaaagct gttgttgggt ctcttggtta attttaaatt 240
tagcaatacc atctcaaacc tggagcaatc ctggaacagt taccaggatc accttttccc 300
ttcaatcctt gtggcttctg ggaatcttca gagcctgggt ctgaaagggt tttcctacat 360
gtctcagggc tggatgcaaa cctggctggg gacctgagca tcaactccca tttagaatca 420
gacatctccc ttcctgcaa atgtctacaa ctaccaaatt gtccccaaca gttagctcaa 480
tggattgaat ttgcagaagc ccacttctaa aatgggggact ggctggccat acactaagaa 540
aaagactcaa ttatagatgc tatanggggc cc 572
```

<210> 7661

<211> 176

<212> DNA

<213> Homo sapiens

<400> 7661

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catataaaac tatttattca taaatatttt ccaaaatgaa aatagggtta ccaaaaaatg 60
tccctcactg gggaggggag gagggggcag ccctcgcccc cgggccccca gggnggggct 120
gngaggaaaa cctcccggcc ccctccctgc tncctgggag aggggggatgc ccnnnn 176
```

<210> 7662

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7662

```

gacatttgtg caagaggcaa ggtgaatgca tacatattaa aatgttcaca tttaatggga 60
agaccacaca taatggcagt ctacattgaa cccattttca agtatttggt cacagattct 120
tctgagtact gttatcagct ctttatactg gtaaggtagc ccctgtgagc tacacatctc 180
tttagcttca aacaaaagaa atggaatgac cagcaccttc ctttgttttc aggcaagtac 240
acagaagcct tgctgcagta gctacatgtg gcaagttctg atgttgccaa agttagaaag 300
agtttctttg gccacttggt tctcctaaaa tacaagcgag tctcttggtt taaggtaccc 360
ttacaacatc atcctctcaa caacacggac aggataaagc cacatgggaa tagcacactt 420
gaggcctagt atgtgtatit gttcagtggc ctgacagatg gggtttgagg aacaaaggaa 480
ggctttggcg gcacgtcagg ttttaaggac ggggtcctct ttantcccgt cctangaaga 540
aggcccttac tggggtaact gctctgctgg anagg 575

```

<210> 7663

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7663

```

cacaaatagc actttttatt tgccactatt tgaagtctga actttaaaca gattcttgga 60
ctggtggttc atatccatca gctcgttcaa ctttagcacc tgtctcgtcc ccagnggctt 120
ttccagaact actgtgatga aaggaaaaaa aaagtttaac tttccaaagg taatgctttc 180
atgaagagtt agaaatagca gttttagtaa ttagttgtag gaattctggt taagacttca 240
acattttacc ttacttaaaa gatttgcttt atgcaacatt taatgcccag ttttgcatgg 300
ctctaaaaat ctttaaaatg caaaagcttt tccagtgact ggaagccaac acgacaagaa 360
tgaaatggta tgacctgtga attagcctgg tttataaaaa aataccagtt cagagaccat 420
aancaaaata aagaaactaa gcaatcctta aattggattt agccttgggc aattagcaga 480
aaaaattcac tcntaaaagg atcctttttc agaattattg ttttttaaaa ngtagggact 540

```

gggtttataa gagtaaaaag tttta

564

<210> 7664

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7664

acaatttcag ctttattgac cccctaaagt ctacaaatcc ttgggactct actgaccctt 60
gctgtaaagt gaaggagtg aaagtatttg gaatataggt aggacctcta atataataaa 120
gatgtcactt taagatcaat ttattcaaca aacatttatt aaacattcat atgccaaaaa 180
ctatgctatg gagatgcaaa aaataaaaag gticccttttc ctgcccttaa ggagctcaca 240
ttctagtaaa gacttttgaa aaataaaaca atacagtacg atttaagtga catacaatag 300
aggtaggttg taattacagn ggtgacacga aagtggaagt tagatgactc tccttgagtg 360
gagcaaagga ggtttcacag aggaaatgct tatgtcaggc ctgcaagatg cataggaatt 420
ttncaaagtg ggaaggatga ctagcacact tgatgccaaa gaggtccagn ntttaccaag 480
gcggaaggcc tggccaaatg gggcttntga aaaaatgtaa gctgttcacc agaacattcg 540
ggggnggaac ccat 554

<210> 7665

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7665

gggctttgcc ttaggttgag agagccgttt tttctccaat tcaatacttt ttttgccttg 60
aggaggccgg gaatgatctt gcatggaagt gagccacttg tgcacacaaa agtcactctgc 120
ccctgaatag atgcagtctg gatccaaagg agaccatgcc acacaaagca gtcgaccttg 180
atgtcctcgg aaattgcaca ggggctcttc ccggagagca tcccacacct gggctgtacc 240

atcataggaa gcagatacca gccttccatc atgatgtggg ctccacgcca cactggtaat 300
 cttggccgta tgccctgaga gggctccgta gggctctgta atggtcactg gagactcagg 360
 gctgctctct atgacagtct tcaggttgtg cacgtaaagtg actgcattgt tggagccaga 420
 ggccatcaga tagctcaatt ctggctggct gccatgctca tgatgccagc tnatggnatt 480
 cacaagcttg ngaagctgtt ggataagtcn anacagtttc anggtnggga atctggaaat 540
 atttctattg ga 552

<210> 7666

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7666

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 caacctccac ctcccaggtc caagcaatta tctgcctca gcctcccag tagctgggat 120
 tacaggtgcc caccaccagg gaaaactaca ttttcaagg gcatcagaga tgccttaaaa 180
 ccaagaaaac ccaaaagaat taatctcatc tgattaattc tcatcagtca ccctgtattc 240
 acttcatggc ttaccctgct tttaaaaaac ctgcactgtt tctggtttta atccttaact 300
 acctcaagaa tccagaagtc ttagaaatat ctaaaaattg tagcatctct gagcaaatgc 360
 acaggtcca gtcaatgtaa aattattacc agctgcttaa aaaaggtcat ttgtccacac 420
 cataagcaga aaccgaggag acaagactat aaactagaac caaggctgac aggcaacagg 480
 aagaaacagt ccagatccag gantggggag tgggcaaanc caagcaaacg gcatgantgg 540
 aangggattt gaaactaagg tag 563

<210> 7667

<211> 558

<212> DNA

<213> Homo sapiens

<400> 7667

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ccatccaaga taactttatt ccattttgca ttatttgata actatttcct tccccctccc 60
acctccaact gcattctcta ctctgaaatg cctnttgagc agccaagggn ggccagttct 120
gctcctcatt ttcctgaana anaatctcag cctgaaagaa tatagagcta ggngacatat 180
gggtggccaa ccgnttctcc tcaagttcca agagagnggg caattagnga aattccatca 240
gtcatgttaa aatatacttt caccaggtag acatccttct ttcaatgcta gaggacagtg 300
aaaaatgtag attaatgaga tctgtaactg ncttctctta actgtacacc cctcaggctg 360
aacgcgggag tgctgaacac atgccctcgg aaggggaccc tgaagaccca agtgacctgc 420
ccataaacca ccccgagggt caaccttgct gccagccttc aagaaggcag cagggggccac 480
ctgnntggaa aacctgggca cgggttttgg ngncctggnc ctggcctggc ntcttcaagg 540
tccttggaac caggtttn 558
```

<210> 7668

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7668

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gcattctaaa gactttatgc taagtgaac cagtcacaaa aggacaaata ctgtatgatt 60
ccacttacat gagaaatatg agtagtgaag ttgatgatag agacaaaaag tatggctgtt 120
gctaggggag ggggaggtgg ggagttattg ttcaatgggc acagaatttg ggaagatgga 180
aaacttctgg agatggatga tggatgatggc tggacaacaa tgagaatgta cttaatccac 240
tgaattgcat atttaaaaat gggtgaagctg gtcagtttta tgttataaat attttaccac 300
aataaaaaca nattgaactt aaaaattcac tgaanaagcc catatggaaa aaggactaaa 360
tgttaaaaaa aaaaaaagcc aacttttttt ttttttaatc angagataag tccgtagctg 420
caagctcaag gtctcggttg aggacantca ttatgagtc tagtaaaaga caaccngttt 480
taagaacact gtcaggcnng ctaccatgta nttctccttg gcttccatgc ttacnttttt 540
nagactttcc agtanttcca aaggg 565
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<210> 7669

<211> 443

<212> DNA

<213> Homo sapiens

<400> 7669

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ccagagacaa cttctaagtt tctctttatt tcttttggaa acaacctcca ttcttcatct 60
ctcaatgtag tcctggccta gngaaaaaga aggcttttct ttctggcctc canagactgc 120
ttcctttgta ggaaaaggaa caataaacac ttcccattag gtttctgtct ccagatacca 180
atcaggggaat gactggccag gactggaact taacggcctt ganaacatgt gggatttgtc 240
tttgagcccc attggcttgt gatgttttcc tctgnccctc ctgagacagt tgctcctgtc 300
ctgggggggt ctgcctccac ctcccagncc aggatgtctg aggtggttgc aggctgcttg 360
ctgcccagtt tccagtctgt tctggnccag ggaagcacca ccccatggcc cttgctgctt 420
ntggcagggg ncctnannag ctn 443
```

<210> 7670

<211> 773

<212> DNA

<213> Homo sapiens

<400> 7670

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aatatagaac agtcaggttt tattactttt aagtaataaa gagccttttc cttgcttttc 60
ttttttccct ttttttcttt tcttttttct tttcttacia catacattaa gtcgtgaatc 120
agatgttagg ggatgtggag atggaaggaa aattggtgac atcacaatat ttttacaact 180
ttacaacaaa tataaatctg agtttgttgc atctaccagt gtctagcaag ggtggaaagc 240
aaaggcacac tcgggtttat ggaccctccc cccacacaca gtggggaaaa aaactgggga 300
gaaatactta aatgcagaag accagctcaa tacatgtggg tatttttaggg ttaacaccag 360
aagtgatggg ttgtgggggt gtaggaatgt ggatgtaagt ttgacacag gtctccttaa 420
cagctgaggc agtgatgcct acaaacactg gacaagacag ccgcttacgt caatgatggg 480
```


tgctgcactg ccagtactct ngggagtcaa gcatgggaaa gaagggggca gggggataca 540
gacccatcac cttcctaatt tctgcatttc tagagaaaat tcaaggaaga aaacaatatt 600
tcaggttcta ggaaatactt cagggtttca ggagacagag ttcacaggat gtgaacatgg 660
attccattca aaagccaaan nnaaaaaagt aaaancacac aaccacctac tcctaaatac 720
agcaaaaacta agggccttttg gaacaaaggc tnttaccccc ctnagctaag nct 773

<210> 7671

<211> 868

<212> DNA

<213> Homo sapiens

<400> 7671

gataagtaaa atgactttta ctattgatat cagttttggt taatctgaaa ctataaaata 60
gagatatatc tacctattta tggatggata ataccatcat ctcatttttg tggaatgctt 120
tatagttttt caaagtactt ttattcactt tatcttccat atatgttate tcctctgatt 180
ccagcaataa cagcccgggtg aggtagccag ggcaagtatg tattttacac attagcagga 240
agggaggcta agcgagggtt atgtaactta ctcaggctga aacactgaag aaaaatttgn 300
gactctcatt tcagngatgt tttctgcatt attaaaaaat attatgctac tcctcactat 360
attatgttga tggttgaaat gtcattataa agcttaattt atatgattct cttgatgagg 420
atgatgaagc aaatgctcca tcaactcact agttttacagg ggcaagcatt ttcctacatt 480
tcacacataa tttgattacc tctgtcctaa gtgaataatc tactatctgg gtatgagaaa 540
catgatttga aaacactaaa ccactatatt atttcaacaa agaaccatct ttcacaccta 600
agtaaaaagg aacttcaaaa aaagtcctaa ccaaaaaaaaa tccaaatgat gcatgaaatc 660
aagtcaaaat tgggtatctt ttatccggtt cticgttgng gtgaanaatg ttgcctggat 720
tccttccatc taaaacttga tggtagacct gnggcanaac tctagaaccg acttttagcct 780
tgggaaancca agaggccaaa cctaaagctc actttctgca tggatgcntg atcaaggagc 840
tcttctgctt ggaaccggng cttggaan 868

<210> 7672

<211> 388

<212> DNA

<213> Homo sapiens

<400> 7672

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gccaaagataa atcactttta tctctatagg gaaagggagg atctaaaaaa aatataaatt   60
acattagtaa cacaacataa gaaaaagaca gggacaaaaa caacagaaga agtctgaatg   120
atgctaccct aacctattta taaaaaggcc ctgcatcaga aattcacaat cctaccact   180
tctaaaaata tatttagaca tgtacagaag cggtgggctt gtttttaa at tgtttgcttt   240
ttttgtaaaa atatattaaa ggtgaataga aatcctctct cccttcccc tgccagccc   300
ccagctaggg actgganatc aggggtaact atctcatggt gttctaaacc ttgattacta   360
acactcccaa cccctcccca actcactt                                     388
    
```

<210> 7673

<211> 360

<212> DNA

<213> Homo sapiens

<400> 7673

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ganatggagt ggantgcant ggcgtgattt cagctcactg taacctccac cttgcaagtt   60
gcagcgattc tcatgcctca gcctcccgag tagctgggac tacaggcatg tgccaccaca   120
cctggcta at tttngtntta ttagtanana tggggtttca ctgtgttggc cgggctggtc   180
ttgaactcct gacctcaggt gatccacctg ccacagcctc ccaaagtgtt gggattacag   240
gcttgagcca gtgcaccggg ccgactctct accanaaact tttcttccaa tatgaaggaa   300
gcatggagtg tnggctacag tcaactaatg atccttccaa gttcaaantc atgataattc   360
    
```

<210> 7674

<211> 378

<212> DNA

<213> Homo sapiens

<400> 7674

```
cacaatgaat aatacattta ttaaacaat tatttctttc ctacatgatt tctctgatgt 60
tacattgagg gttgacttat ggcagaaaaa ttttccatat tcattacatt tataaaattt 120
tactcctcta tacatactca cagtttagca ttgtgtaagt tatttgattt gttgctttgt 180
tggaatttat tactttgttg gaacttattc cttgtgggat ttctgatgta aaanaaagtt 240
tgatntgtgg cgaaatgttt tctcacattt gttacattca taaggtttct ctcctgtgtg 300
tattttctga tgttcagtga gagtccacag gcgacggtag gttttccac attgattaca 360
ttcatatggg ttctctcc 378
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<210> 7675

<211> 377

<212> DNA

<213> Homo sapiens

<400> 7675

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ccgtgtcatt ctcacttcta aatagcteta gacttgggtcc cattgcacta acttaattca 60
ctctccatca tctttggctt ggantacaac tccgtccttc catctaattc gcctgtctcc 120
aatcgttctc ccctttgatg tgnagggcan ccatgatct ctctaacatt tacanaaaaa 180
tgcaccactt gggttgttta aaacccttca atggcttccc attgccccaa gttcaaactc 240
tgcaatgtgg cctacacatc tctctagntt cacctcctgc tcaatatact acagcacagt 300
gaagttcttg gtggtcctca aaagggccct caaacttcaa acattccctt caaccttaaa 360
atcctcaatt gggaaaa 377
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<210> 7676

<211> 223

<212> DNA

<213> Homo sapiens

<400> 7676

gagtatgatg tttaatgtaa gatccagtgg cttggcanag ttggtgcaaa actgtaaagt 60
 accanattaa gttctagtca gtgagtttagc agcctaggca cttgggcaaa aaaattggcc 120
 ctgctgtccc aagtcctcca aancctctc cgtatcacca gctagganct ccaanactga 180
 tatgccacta cttggaggct tgantnaaat ccacgcgtcc tca 223

<210> 7677

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7677

ggtttgaaat atctttttgc aatanataat cttattttaca ttaatacaga atcattttac 60
 attcctaaat cagacactaa tagatgcttt attttagtga attataaagg aaaacaaaaa 120
 ggaaactgtt gagaagtgtt cttcattaac ctgtctaacg acagcccga gacccctgaaa 180
 cacatggaaa ctgcgacatg ctaccagcag aggctgggga atgggggttc tgctctcact 240
 gaatggtggg gaaccttcaa ctgcttagcc tgtgctttcc ttttctgaat caacatttac 300
 aaaggaaaaa acaatgatta gcactgaata atttaaanc acttcagaaa atanatgtcn 360
 acagtgnag tggganaac 379

<210> 7678

<211> 376

<212> DNA

<213> Homo sapiens

<400> 7678

aaaatatttc cttttattct ggaacaaaaa ctggagaaag gacaatgatt ccttcagaaa 60
 gcaatgactc aattcaggtt gttactttac atttaagtac cactcaaaaa gtggacataa 120

aagcaagtga ttcctgtttg cccatcacta taccagctac atagctgana nttcagatct 180
 taattacaca acactttctc tgttaccaga agctaagact gctctgacac aaataggaca 240
 ggtngaattc tcagataacc agcgatcgat gcagtggaca tggctactcat gggaaacaag 300
 gtantttacn aagtttgttg ccttctggta tattctgtaa tgcaaacact acagggtttt 360
 taatgcatca tttttc 376

<210> 7679

<211> 386

<212> DNA

<213> Homo sapiens

<400> 7679

ggtagtcaaa gtaaagggtt gtccttgcac cagaatgggt taaatcttgc aatttgcata 60
 tacaaaggag ttcagcaaca ttcactggca ttataatcag agcaagatca aattataaat 120
 gtaatcaaa aaaatatgat agttgaactg taataacata catacattat aaagactgca 180
 cataaattaa acacaactta gttaaacaaa caaacaaaaa agtatcagta attatacact 240
 taaaagaata acatggggat gtctccaaat gctgaaacac aggtgtcagg ctcatTTAAA 300
 aaagtgttta aaaacncata aaaatacctt ttaaaacact ggtntgcatt cttcattcat 360
 atagcacatg ggagaaaaac cgtaaa 386

<210> 7680

<211> 285

<212> DNA

<213> Homo sapiens

<400> 7680

tnagttanat acagtgccta taangaacag acgcccagcg caacaggctg aggcctttgt 60
 ccttgatgat ttttttttcc tctggctacg ttcagtccga ctgaagtgca gcgctatgca 120
 tatgtnaaca tattcggtan agccgatcac cttaagggtc attcggaata aacggctcctt 180

gttttcgcgg tgtgggtgtg ggtcntaaca ccagttctcat tcccccgga ggaangctct 240
tgggcgttgg acantccac tcgggttgtg ncacaggac aatnt 285

<210> 7681

<211> 380

<212> DNA

<213> Homo sapiens

<400> 7681

agaatacaaa gaaatttaca ttattatac cgcaaaaaaa ctcatacatt tataaatacc 60
agtaacatgc atagaattgg aataagatgg ttactttcta ataaaaggag acacctccaa 120
tgggcaaagc ggtaaaaaag gactttccac aaattaaacg anactagcct cagtagatcc 180
ttattaacac ttaagtgaat tcaaagccct tctgaaact gggatttgcc tcgctaacc 240
tctctgcacc ctgagcaacg aagttgggga taattggctt caggaacttg aactcatttg 300
tcccgattc tccagtcaga cacacctgt actggtagct ctgggacagg gtcccggtgc 360
cgctcacgtc caccatctgc 380

<210> 7682

<211> 380

<212> DNA

<213> Homo sapiens

<400> 7682

aaaagatac ttttaataac atgaaggaaa aaaattcaaa ataacatata tatacaaata 60
catcctattg ttattccagt atttcacaga ataaagaatt tgtctatata atttccttca 120
gtagcccaca aaatatttac cactcctttc cttattacc attgtattaa agacatctga 180
tgtcaatgac aaaaactcca gtattaatgc ttaagagcta gggtacatta ttttaagtttt 240
tcatttaatc taacatcttc aagtcataagg gaacttttta aactaatctt gttcacactc 300
caggacattc ccacgccaaa aaaaaaagt cagatcaaca gccagaaaaa aaaaccaaac 360

aacaaaaaaaa accacagcta

380

<210> 7683

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7683

agtataatcc actttataag tttttaaaca aatataactta tgcatakana aaatctggaa 60
 aaatatatgc cagctataaa gtgggtattg ctcatgggat aaattgtggg aaactttttc 120
 cctttttgct tctctgtgtt gtgatttcct aaagacaggg cagtgggtgtc cctaaactgc 180
 tctggaactg caggacctaa cagcctcact gtgtctgtct acccaagtct gacaggtggc 240
 agggcagtgt ctgangccca ctgggatgca gaccaggaa agctgggggtg gggggcttct 300
 ggtccccatc tctgcancct catcctctcc ccagctacac agaccagat ggtcactgtc 360
 ctggaccana tgaaggcag 379

<210> 7684

<211> 381

<212> DNA

<213> Homo sapiens

<400> 7684

gagttggagt ttgtctctgt tgnccaggct ggaatgcagt ggcgcggtct cggctcactg 60
 caacctctgc ctcccggtt caagcgattc ttctgcctc agcctcccga gtagctggga 120
 ctacaggcgc gtgccaccac gcctggctaa tttttgtat ttttattaga gaccgactta 180
 gccaggatgg tctcgatctc ctgaccttt gatccaccgc cctcagcctc ccaaagtgt 240
 gggattacag gcgtgagcca ccgtgccag cttttcaagt ttcttaaact catgatcctt 300
 agtaaaaaca ttttacacat atcttcatac aagtatatgt atatgtgta tacgtacaca 360
 ctatagttgt atatgatta n 381

<210> 7685

<211> 378

<212> DNA

<213> Homo sapiens

<400> 7685

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aggatgttct ctttatttct ctttggtttc ttaacacaaa agacatgcat tctataaata   60
aaaggaacta agatttttctg ggaaaccata aattgggagg aattcccaca gtcacacctc  120
tgtggtcaan angatgggtct tcagccccc a tctggctgta atctctgatg aaatccanaa  180
aanaaggnc c gtgtgttatt caaaaagggtg aaacactcaa ggacagtga tgccacagtc  240
ctctgctcan aactgggcta ggcccccaagg nccactgant acaatgtcta ccctatctcc  300
ttgttacatc cttttttacaa tatccttggg tgatgcttct tttcatgggg ctattggaaa  360
ggctccaaca ccaaanaa                                     378
    
```

<210> 7686

<211> 384

<212> DNA

<213> Homo sapiens

<400> 7686

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gtatcaatna atttttttat tcagaacctg gatctttaag actggtataa acaaaaataa   60
aatacaaaca acttggttatt aacataatag ctgcagttat taactgcaag aaatacagta  120
aaaaggagtc atactaaatg ttaatgttct tgcaacagaa ttttcccaat caccttaagg  180
tagcaaattc tggnaanaaa tgataattca tttcttatta aaaatactta aagaatttcc  240
aagattgatc agttgtgcca caaataaaa acagctttat tcaaaagaag cccttacctt  300
tctcttattt tcctaaaaga tctgccattt acaggtaact actaatttca gatcagttat  360
tcaaaccagg ggtnccttct ggta                                     384
    
```


<210> 7687

<211> 387

<212> DNA

<213> Homo sapiens

<400> 7687

```

gactgccatt gcttcacacc ttttaactg tcttaaaggt tctattgctc ttcaacgac 60
ttagtgtact ttgaaatata aaagtaataa ttatcattgg aacagttatt ctaaactctaa 120
aaagataact cccatagcaa tatttggtta ctcagaacat attttcactt ccaatatatg 180
taaaatttct cacaaaggaa cagaactcac agtttgaaca gaaacctcag tgtttaaadc 240
tccacattca gtaaaataaa cgctacatag taggttgtn cgaatataaa tcacgcattt 300
aactaaatgg gatataattt ctaacttggt ttaaaagtga agaaataatt ttttatgggtg 360
aagccttggt ccaactcagt caagtgc 387
    
```

<210> 7688

<211> 282

<212> DNA

<213> Homo sapiens

<400> 7688

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cantgaacat tccagatttt attagtaacc atgcattata tatttcttta cnccttaagga 60
atagatatga aacaatcttg gagtaaaaat tagaaggnaa cttgcttcaa gtttgtccca 120
agtcaatcaa gcagaaacct gaagaacctt gttttaagat gagagtcatt tatacttggc 180
aggnattttt ttccnatgaa aaaataaagt caatgtgcc aattcttgac acttatnaaa 240
atgtttataa aaagcattna ggccnttgat tctcacagtt gg 282
    
```

<210> 7689

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7689

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gcantttgta aaatgtttat tanacctaaa cgggtgcctg gctcttagtt gattatctcc 60
tggatctgca aagaaaaaaa ggaaaacaaa aggggaaggg gattctctac aaggcctagg 120
catganagga nantcacatc aagttaagta ctgggccacg tgacatatca caatccccat 180
gtggacacat tccagtaaga caacacctag gtgctgggcc cagnaacata tgactgtgtc 240
ttttataggc aaacacaggg tntaaagagg ggaggggata acaatcaaac atctgatggg 300
ccaaaanata tgtcncaatg ccccctgtgg gcagggtcca cgctgganac acatatcacc 360
ttggcgttgg gcccatgan 379
```

<210> 7690

<211> 387

<212> DNA

<213> Homo sapiens

<400> 7690

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natacacaat atataatact gggaagattt catttcagtg tttcccaaaa cattattcct 60
gggaaagggg gtncctctccc atgactctgg ataatanag tttgttctg attttttaag 120
tcacctcana cagacactgg aacacgtag atctaact taagtgttt gaaagggcag 180
taaaaaatcc ccaaggnaat tcaagaaatt gtaataattg ctgggaanac tgtggtttct 240
gtancccagg gtggcttcac agttgtcana ggtcacaaat tctatgtccc tctccgacca 300
gggacctcca ggacagcttc cctggttggt tctcgantct ttcancanaa ggcagaccaa 360
cagaagaagg gttgttgacc ttctcca 387
```

<210> 7691

<211> 383

<212> DNA

<213> Homo sapiens

<400> 7691

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ggcagtcata cacttgtcat tcttgtttct tctctcatg acatgggaaa ggcaggtaaa 60
aagatctctt gaaggttgct ccgaagccca tgggantgaa tgttccggtg gacttggggc 120
tctgctgacg gangccaggc cacaagggga caacgctggc accaggccca gtcacctctg 180
taccactcgt tagtantctg gttggtggcc gccanataca ggacaaaca caggtngccn 240
cccaggagga agctcagaac cacgacaaag cccagcatga anacaatccg tggaaaagtc 300
aggaacaggt nctgaataaa aaagaccgtg tccataacat ggnaggtgtc caaggtcatc 360
natgtaagtc tcttggtata aat 383
```

<210> 7692

<211> 379

<212> DNA

<213> Homo sapiens

<400> 7692

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gctgctaaaa atatcttctt caggccctct tctagggtctg ccatcttaat gccagacagg 60
acattggaac gatcacgatg ctgagccaca atcaaggcca acaaactctg ccctttgttt 120
cttgattctt tatcatcaac aggaaataaa aggacacctc ccaaactcag gtctttcatt 180
ttcccagcca gctcatatat ttttcttggn tcagcggatc gcttttccan anctgtaa 240
aaaccacctc tgccccagtg gccaaagtca tctacgcagt gcacaatgan agcatcctcg 300
gccccagcct gaggggtgggt gacatcacca ctaacgtact tgagggaant ancatctggg 360
tcttggtaat ccantcan 379
```

<210> 7693

<211> 418

<212> DNA

<213> Homo sapiens

<400> 7693

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gggtgctctg tctgctgtag tcagccgagc aggggcgtct gctgtttgtc gctcactaga 60
agagagccct tgccagccct gggttcctgn tgccgcaccc gcgaaaacag atggcaccga 120
cttggcaggc cgcagggagc cctggatggc cttgccaggg tctctcctgg aancgctgct 180
gaaggacctt gatcctgca tcctnctcca ngatctgggc atggagcacc tttaacctgc 240
ttnccatctc ctgatgacct tggccaccag tgagcaaacc ctcatgaaa ctgctgctgg 300
gtgagggctg gggggaatgt ccgataagag tgggtgtacn ctgagnagca accggtggtn 360
gccgcatccn tggcnaactg cctcatgggc atgttctctc aaatacttct gctcccac 418

```

<210> 7694

<211> 458

<212> DNA

<213> Homo sapiens

<400> 7694

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aatgaaatgg aatttaatgt aactatgaca taaacacaca cagggtgggg aggacgggtg 60
accaancgca aacgtgggtg acacgtggcc ccgctctctg gaccctcagt gggaaaaagt 120
ctgaggctgg cgtctctcac caaaccacac ctcccctggg gggtaatac tgatctggct 180
gagtgcacgc atctcgtgac ccaggctggc cctgggaang cgccacaggc gangcctgcg 240
agtccagggg agcaggcaga cgctacagtg gccccgagc gcgccagggt ccagcctcna 300
cgtgtnaatg gcccgtgcg ggcgctgctg ggaaagaaaa caanaagggt agggctcgtc 360
ctcaccaagt gcttctgan tgccgtanga cgtgggtggg acatggggac agtgagggtg 420
ncacaaacag caacgaatgc acaaagacaa gtccagn 458

```

<210> 7695

<211> 400

<212> DNA

<213> Homo sapiens

<400> 7695

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gccttttgta caaagttttt atgtatatat atatgtatat atatttatgt acacagacac 60
aaggggtata aaatccagtg agaagggtc acacatgccc aggtaaggga tgggagtagc 120
tataattgcc agggttgang ccacagtana ggcacacagg aagtggtaaa ntancagcct 180
ccctccatcc tcctacctcg ggccaaaggg aggaaatggg aggaaggaca attntacaaa 240
ggaanatgga aaatactgga aaggcatact ccacctttta ctaaattcct gaaagcccct 300
aatgcctca caggacanat cactctcaca cctcctggca ggacanatca ctctgangcc 360
tcctggcagg ataaatcact tccatgcctc ctancaanat 400
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<210> 7696

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7696

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gtattggttt tatttaaatt ttacagaaac ctgatcagag ttaagtatgt aattataant 60
ccagtaacaa tttctacaaa aatgcacata caatgccaga actccttaa agcaactaat 120
atcatatttg tgttttgcat aaaacatgca ttaatatgtt ggccaaaatc agtctctaca 180
aaaagagaca gtccantaca gtcaataaga aaactantt tgaacaacag gtaaaaaaag 240
aggtttccag ttaatgtgaa anaaggaata gtacctttca taaaacaagc ctttcagcgc 300
tgagttaact gatcggtact attgtgctgc acgtaatgta acacatcacc tccaagactt 360
ggtcctgatt ggtcatagga agtaaggac tttctggtan ttacatcaga tatttgagaa 420
gattaaaagt tttccggaca tgatgggtata ctaatagtgc aaccttgcaa aaagggttcg 480
aaacattgtc agacttgga aantcccan cttgataaac aacccccaaa gacaccccga 540
gcctttgaac ggagcctctg cacaaggcca ctcaaggntc accatttntt ctgtgggccc 600
n 601
```

<210> 7697

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7697

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attaataata cttatitttaa tctgttcct ttagtatgtc ttatacagt tcccctcgtg   60
tatatacact gatataacta caatttaaaa gccactaatt atctgttttt tactttgtag  120
taacaagata tagacatttg aatgccaatg tcttattctg gagagacact ggagctgaag  180
ttcaacaatg atcacactta ttacctggca ataaaaacac aaccatcttt ccagtcaggt  240
caaaatatcc tactttttgc ctttctacca aatcccaaac attcacagtt tttcaaggac  300
cactaataaa atacaggaag cttttaaaga cagtaagaga acacctagtg taagttaggt  360
gaattaaaga tggcaaagga gattacatcc tcaacactga cagcttccaa gacttagaaa  420
agagattggt ccttgcttct aaaattgttc tattttccnc ttagggaaa atgaaagttt  480
tttcttacia atattgaata atccaagtac ttacgcnaaa ttaatcctgc nccccatgan  540
atgaacacnc catttaaatg atctttacna tccc                                574

```

<210> 7698

<211> 490

<212> DNA

<213> Homo sapiens

<400> 7698

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cccaggagat aaaaaaattt attttaatgc acaactatag cattcatatg cctcagccca   60
gggcaggggt tgggagttag gtaanaaggg atgcatttag ttgcccgtg ccccaaanag  120
cgggtaaata gctaagccac tcttcactcc cagcacagac cttcagaagc cccagatatc  180
aggatgtaat ggtagggctc actgctctaa aacagctcaa acaacctgct cccaggaang  240
caanccttct gctccttggt cccctgccta ccattaggac acaatgttct tcgtctggcc  300
anacatctgt tgaaaggctg gatacaggac aacgtaccca tctttccatc tatatcaact  360
atcctaggtc tctgataccc cattttggag cactgttgaa gtcantctct ggaggtagtg  420
ctgacgcaaa aggggcaact ganaataaan ctcaaanccc tctgggaacg tngaaattgg  480

```

gaagcttata

490

<210> 7699

<211> 358

<212> DNA

<213> Homo sapiens

<400> 7699

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aaggcaagaa caacagtatt tattcagcaa gtacaanacc agtttgagag ctgcattcag 60
tgcaaccaga gaccctttcg ttccaaccag gagccagtgg ggctgggtgac aaanctggct 120
ggagctctgc acggggcaag gagtgcattg tgggggctga ccgctcattt ggctccttga 180
atctctttct gatttctatc tanaanctcc cgggcaaggg tagggcctat gtagggactg 240
gggggtggatn aagcgcattg cctacagtgg accactccaa nacgtgggtc cctgggtgcca 300
cgggtcacac atctctcagg cggaggcact cananaangt aaagctttcc tancccaa 358
```

<210> 7700

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7700

```
gagatggatc ttgttctgtt gccaggctgg ggtgcagtgg catgatctca gctcactgca 60
acctctgcct cctgggttca agcagttctc ctgcctcagc ctcccagta cctgggacta 120
caggcacacg ccaccatgcc tggctaattt ttgtattttt agtagagatg ggatttcacc 180
atgttggcca ggatgggtctc catctcttga cctcgtgac cactgcctc agtctcccaa 240
agtgccggga ttacaggcat gagccactgc gccagccaa aatcacccaa ttttaaaata 300
ctgattcaaa aacaaaaatt ccacgatgta ngcctaacag aacttgatag gtanaaattg 360
ggggaggcca ccagtttgtg acccctcttg taaatgagga tgatacttac ttggcacaaa 420
acatctgtct ttgtggaact aactanatgg tcctaggtac ataaacttaa ttttcataac 480
```

ttgccaaaat ngaagctttt ctgtgtatcc aaatatattg ttcaaaattc tcccaccagg 540
ttcaggaatt ccattaanat ggttgtnac cccnaaaaaa naatc 585

<210> 7701

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7701

agagatggaa cttgctatgt nggccacgat ggattcaaaa tcctgggctc aaganatcct 60
cctgcctcag cctcctgagc anntgggact acaggtgtgc accgccacac tccacagctg 120
atgttttaat aaagtggcac tgagtatcan actgatcaaa ctgaaaacat cccagaactt 180
canaccaggt taagggggcc aatgagaaga tcatgaaaag tgacatcaga tgaaagctga 240
gatctgtgaa agttttcaaat cagtttttcc nagtaagtcc acagaccatt tgataggcta 300
agcccagttc ttacacaaat gtnncagcca tcatgtctga gtactaattg ttctcttccc 360
actggttttt gtgaaatttt ctgttctgtt accttttaaa gattctacca agtttttgac 420
tgtttcaatt gcaaacttat tgcttttctn cttggtnaan gactttctgt ttggagcaaa 480
tggtacaata aggataccac ccccnngcc gattacttga aatgg 525

<210> 7702

<211> 306

<212> DNA

<213> Homo sapiens

<400> 7702

agaaaatcaa ttgctttaat tgcattgcag cagggaacct cagcaccatg tnggggaaga 60
agaaatggga agtcttggtt tcanaatgct ttgggctggc cagaaggtgg ccaaacaggg 120
caagggggct cctctgctt gggcattgtc caccctggt cantgagang ggggcancan 180
gggtgctccc cacggcantic ctgctgcggc cttccctcct ggcctattcc tggggcagga 240

acaaactcca gccttccctcc acatggctga ngtnatcanc acccctaccc cangggcatc 300
ttcnca 306

<210> 7703

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7703

cccaggcttt ctggccacct gttacaaaag caatggaatg ggagcaaccc cgcaaaactg 60
gtcagggagt attgccacta anacttaagg aacagtcana gcctatgcct gtcgtatctg 120
atttggggag gcaggagtag ggctatgatt tttaaaaaag ttaggctagg cantgtcact 180
tacaccctt ccagctgttg tacttcatga tcctctgaac tttaaactcg agaaagcaat 240
atatcacctg gaaccacgca gcacccctgaa cccctctctt gggcaaggct tggaggcatg 300
gcggttcct tcaagcccag ggtggccttg acattcccgg gatccanttg tcagcctttc 360
ttttctcggt gcacctcagg tccatgcggg gttcagacct agaactcaaa cttngntagg 420
ccaatgaatt tacctgttcc aagaatccaa aacaggtggt gaaanataaa aatctcctta 480
acccaatccc ttntnttigna agggaaacaaa aatccttgga actttggcca ggggtcnccc 540
c 541

<210> 7704

<211> 332

<212> DNA

<213> Homo sapiens

<400> 7704

gcactctctt cctgtacagt atttattgtt cctggcactt tatttaaaaa tntttgaccc 60
tcaactgantg tctgtgtgtc tgcctgcat ccctgggttg gtgtcttgaa atgtggaggg 120
aatgcnaaga actgaggtca ggccaacccg ttnaaaaacc ttttccanan tctgaaaaca 180

aagggttaaaa cctctcccta ggtctgaagg cggaaacagg ccggcttcca aaaaactatt 240
ccaagggcgg agggcggang cagggacccn ctctgggtct naatgctggg gcaaaactga 300
ngacaacccc ccctaccctt aaaaacntct ga 332

<210> 7705

<211> 426

<212> DNA

<213> Homo sapiens

<400> 7705

caaatgcaaa tagtctttat tatgagaaag cagtgttatt taggaaagtc acatgctggt 60
ttctttctaa taaaatgaca aagcaggttt cttaaataat ttacaaaggg canaaattgc 120
tcttgaacag ggctaccctt cctggcacat ccacagtgtt ctgcactgag catataaata 180
ggtacccttg agcccagggt cgtaagcctg gaaatatctc ctatgccttc ctccgagtcc 240
ctgggtangga aaggagggat nanagtgggg cctcaaaaag ccttggcacc anaaacacag 300
tggttgagtg actctgcgga tgactcccca aaaaccaggc acccggttac agagctaaga 360
nctctcaaat atctgatgct agcacttcat gttntanatg angcaaatan aagctcaagg 420
tcaagt 426

<210> 7706

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7706

ctagtttgtg tagtaatttt actgcataag gaaattacag agattgcata aatcattagg 60
tcaacagcat acagagaaga acaaaacaaa acattgtttg ggatcaaata aaaaacagca 120
ggaacaactc aattcttaaa aataccacga attccccgaa tgtggctcca tttgatagaa 180
aattttgcat tttctggata atgtctgtag ttacattaag caaatggaa aacggccttc 240

agataaacac actaaaaagc agcttacaca gatgtgttgc cctcttcacc ttggatgtta 300
 caaaaataaa gatgtgaggc tgcctgctct tgcctaaagc atggcttgaa ctttcaattg 360
 atagtaaccg cttatgaaaa atattacatt acataatctc ctgtgtattg aaattgcaca 420
 agtcagagca tccnaaaact gcaagagtca atttcttcct atggggaaaa gcatatanat 480
 attctatggt taancatccat tccncttc 509

<210> 7707

<211> 594

<212> DNA

<213> Homo sapiens

<400> 7707

gaagattaat catttatttg ggatctagat ccatatatct gaaaactgaa gtataaagtt 60
 tctcatttcc atttaccttg tcaacaaaca tatcccaaac atttcagcat ctgtaaaagg 120
 tgatctattt agcatctgta ataagtgatt tatagttata tatgctaaat aaaggttgac 180
 acagctggat cctaaaagct cagattttat aaatttaaaa tagattaagt atttatgcc 240
 aaaaacaaga actggatcta ggattttatt ttaaattatg gaagtctctg gggaaaaaaa 300
 atagcaatgg aatgacaata gatgtcagat atttctctga gaagtatata gtttctcaat 360
 tttcgctagg tagtgcattc caactgaatt aaaactaaag catatttaca gtgcattttt 420
 tctcactaaa atttcccaat tctaaaatgg tctggccagg cngcattggc tcagcctgtt 480
 atcccaccac ttggggaagg ccaaggcagg cggatcccaa ggtcaggana ttgaanacaa 540
 nccgggctna catggtgaaa accccttcc tcttccaaaa tttaaaaaaa attt 594

<210> 7708

<211> 611

<212> DNA

<213> Homo sapiens

<400> 7708

aacattactt tcttagattt tatttttttc aaaacattat ggcttaagga aaatagttta 60
 cttacttggg gacttgccta ttagtagct attaaaaaa cagggttttt gtgagtttac 120
 acctgtttg tctacttgat gggactgagt ancttccttc aactganata gaatttgtct 180
 accactgcgc tgggaanang cattcacttc aaatatctta aatccaagct cctgggcaca 240
 agcatacact gcagcagttt tccccactcc tgttggccct gttataaggg acagtattgc 300
 aaagacgact ctcttcttca tcatctgaac tgccttttaa gtctatgccca cccgagaaat 360
 cttcatgttt ctcatctctt ttcccttca gattctgect ttcttccaat tcagctcttc 420
 ttttccagtc ttccaaccaa ctatgtaact tttttatagc taactcattt cctataaatt 480
 cactggcaag tctgaagttg aatacttttc tgnccnaag catgtcttca gttcccaaaa 540
 tcttgaaaaa actaccttat cccaaaaaaa ttgtttcctt ttgctaantt ctccgantcc 600
 caatnggtct c 611

<210> 7709

<211> 297

<212> DNA

<213> Homo sapiens

<400> 7709

acagtctctg attttaatga gtcaatctca aggcaaagct ataacctttt ccatgtgaac 60
 ttaaaacgga aatcctacgt gtttggctca gctaccatag acatgtcttg cccagagtt 120
 ccagtgtatt ttccaccttt agtttcttgg ctctctccg cctctacacc agcctcatat 180
 ccacacggga tgctctctgc tgagtattgt cttgagttag ttctccctct catgttctgg 240
 ctgatgctac tcntggtcat agtatcacct gacggggaan gaatntnctn tgaaagt 297

<210> 7710

<211> 475

<212> DNA

<213> Homo sapiens

<400> 7710

```

gaaggtgatt agttttcatt taataaaatt aataacacat tacatgtaga tgaagatata 60
acaaaacccat ncgaaagctt gtcagagata ttcaactaga aaactaaaac agtagccact 120
agaaaaaaga catagtggaa aaatttttga acggatatgc tttttgttga ataattacag 180
taattactac caatatattc agaccaacaa agattagaaa gaacatgcaa aatgctgaga 240
aaatttctcc tacaattaaa acaaatgtgt ttttatgaga gagaaaaaaa taagtcnagc 300
tcctaaaatg aaaattacaa aacatnggga ttaacaattt attaaaaatt accccttgat 360
ttttttgagg ccaaaaaaag tngttttttt aaaacaaggg catgaaaaag acttcagatt 420
aagactcata ctctgttcta aatgaaangt antaaaacta cttctngtan aaaat 475

```

<210> 7711

<211> 303

<212> DNA

<213> Homo sapiens

<400> 7711

```

cactggaaag cttanaatga agctgctctt gcctgttcct cctgagaacc anagcagcag 60
tggtccaggg cacaaagcat aatgatctct catgaggatt cctatctgaa cacatcagaa 120
gtcctatgaa cataaatagg tctgttttag aatataaatg gtagtgactt cctgcgctcc 180
tgaggcgggg caaaataatc cataaacaca taatccttct gggcaataat ntttctggac 240
tcnccagcaa anggtcttan gaacaaaagt gggggtnaaa tccgggaaaa aaaaagttct 300
aaa 303

```

<210> 7712

<211> 477

<212> DNA

<213> Homo sapiens

<400> 7712

acagtgttag agaattttgt tttattgttt tgggtggcatg ggcataattg gagaaacat 60
 tgggggtattc actagtaacc tacattgtta gtttccttgg ttccagcagg taatacactg 120
 ggttccgtca ccttgganat ggctacgggg aggctgagtg acttcccaa gtaataaaga 180
 gtttggaatc agaattccag gtctgactcc cagcanactg ttctatttcc ttacacacct 240
 gcactttcat caatcttctc cagctccaat ttcttgtgcc ccttcâacag catctggcac 300
 agganaatca taggctctcg gaactcggcc tgacagatgg cgcagatgtc accagcttct 360
 gtgcactgct gcccgggtggc tcggactcca tanttctgaa aggtacanag aagcttcagg 420
 gctttcctaa ctccgcccac acntccacan atgtctaaag gacttgcanâ agctgtt 477

<210> 7713

<211> 618

<212> DNA

<213> Homo sapiens

<400> 7713

ataattaggt tttttaattg cctgaatata actgaccatt tccacatgcc cttggacctt 60
 cgacatgcat cgcgtcatga gattcaacgt atttggagct gtgacttttc tgcagcatgc 120
 agtatcataa atattggaga actagagact gaattatcgc ttgtgtaaâ cttatcatgt 180
 tccatagtaa tggtccttga ataatagcct cagcatacat aatccatctg tatggtttca 240
 tccaagatgt atgttttgat atctagtcat ttggcaggcc tcaagagacc tgattcacat 300
 acattgctat gatttctctt tagtatggaa tctctgatgt tgattaatgc tagaacttag 360
 catgaanagt ttgccatact cagtttgtaa gaactctctc atgaatgaat tctctcatgc 420
 tgtgcaaggt gtgaattatt actaaagatc ttaccacaca catttcatct gtacggttct 480
 ctccagtatg gattctgtga tgattgccag gtttgaattt cnaatgaaat ccttacacat 540
 tcntgaaatc tgttccggtt ctccccanta tgaatccctc ctgttttttt aaggttâact 600
 tgngggtnga aaaacttg 618

<210> 7714

<211> 513

<212> DNA

<213> Homo sapiens

<400> 7714

```

gtaacaaaca gtaccaatTT attttggccg tgggtttttg ctttttttcc agttgatgac 60
tttgtgaaca ttcccaggta ttggagcctc tgtggcctta aatgtggctc agtggaggga 120
gaccancat agccaggcca gtatggagca cctcacgcac agctctcana agctgcaggc 180
ggacgaacat ttgaccaaag angtgtggtc gaggctcccc cangatgtgt acccggttgt 240
agtangaact gaaatccatg ctgagctgta ccaggaactt gcatacttag agacagagac 300
tgagtcactg gcccatctct ttgctcttgt gccccaggcc anaataaaga atanagtgt 360
naatgtcctg gttgtctatg cctcaccatc tctgtgcgta cagcaatgtg gaccccgggg 420
ctgtgcantc cancatgtct gtccggtca ncanatccgg aaagggaag atactgttga 480
aaaacaacac cactcccccc tnttggggaa aaa 513

```

<210> 7715

<211> 223

<212> DNA

<213> Homo sapiens

<400> 7715

```

ggcaggaaca gtggtttatc aaccaggcag gcctccccag cccggccact gctccccaag 60
gggctcgggc tgtgtgggct ggccttggca aaaggtggac aatcctctag gtccaaggac 120
atgggggtca caaaagtggg ggccttgggc ccacacattc aaanaaaatt cccaaaantt 180
tccagtggct ntccaagca ggtatcaggt tcggcccaca cct 223

```

<210> 7716

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7716

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gcagatggga catatittaat aaccaagggt ctaagcaaag ttctgaaaag aaaacttttt 60
gtagtaaata tgctagcata nacaagttcc ttgtgttttc caacaggttt gcttcaaaat 120
caatccttac agcttcaana acaggagaaa ctcttaacaa agaaagggtca gcaaatttat 180
taccacaaat tctaagatat tgctcttctc ttacctgcct agaggcagcg ggatggacta 240
catgacctcc tggagtccca gccagttctg ggagtcgtgt aagtccggga tgtgtgggag 300
ctttttaagg agtgatcatt ggctctgagg acacttcaac tagttggcct tctatcttga 360
ggtatataaa ctgtgaaaaa gggtttctat tctctctgaa agcacatgtc tgtgttgaac 420
atttcagtaa atttattttg aactcaggat ttcatgtcaa tttttacaca cttgattttc 480
caaatcacat ccaactcccc accccaaacc acatacatcc aaatcaactc ctgttacct 540
aaaaaatcac tgtccatgtt ccngaaaatc cctgttt 577
```

<210> 7717

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7717

```
atgaaatttc attttattct gataaagact aatatatgct tgataaccta gtgataatcc 60
ataagtttgg tatttcacaa catttttttag aaagcacata agattaacat tcaaataagg 120
nattatagaa agttttataa agaatgaagt gtttcctata tttcttttaa aaaaccttgg 180
ttcatcttga aagatcgatg aattttttta atatcagaag aaaagggaaa taaaattttc 240
ccccaaaac acataagaac cacttactgg cacttgtatt ttaagtacct gggaaaaaaaa 300
cggaacagat ttttaaaggc aataacgact tgtaagacgg cttgtttcat ttgatttggc 360
acgaagtaaa gtaagagtaa atatgccatg ggaagacata atcaagtttt tcctccatct 420
ctcatatttc cccacttcta ccagaccaca cagtacatca gcaaccatcc ttanattcc 480
aatttttaaa tggntgctcc nacaacncaa ttana 515
```


<210> 7718

<211> 521

<212> DNA

<213> Homo sapiens

<400> 7718

```
aactgggtga agttagactt ttataagcaa ttatcttctg tttacagta ttcacattaa 60
attagttaca acattttaga atgttttaac acgattttacg caatcagtca agtggctaca 120
tttactagtt tattgaatat gaggtttatc catttagcaa tgtaaggaaa actttagtct 180
tgtttctcag ttatcaggag tgaacataaa actattctaa accacaatta gtttaccagc 240
atagtacaaa ataaaatgac agcgaaataa agcaattaaa gtaacttatt tttactcata 300
aggttaccat aataataaaa attcctttta ttttcaaagc actctcatg aaaagtagtt 360
ggggtaaaat tactatttgt tcaaagtaga ataaaaggga aggatgctct aattaaacat 420
tttattaaaa ttaaancnct tatttgaaag gtagaaattt aatctggaaa cctanatana 480
tttccaattc cgataaaatg ggtgacanc c ataacnggta t 521
```

<210> 7719

<211> 260

<212> DNA

<213> Homo sapiens

<400> 7719

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acaaatcaaa aggctttatt ccttatataa acccacactt aaaaaaata aatagttaat 60
aaattatagg caaaccagtt ggtctcagcc acgcctccca ctgaggtcca gggcagccgc 120
tgcagcagca gaagagcggg aagtgtacca cagcttggct caagggcgtg gtctggactg 180
gggacnaang gacagaagaa gaagcaaggt ctgggtgaag gcaaggatgg gggctaaaag 240
tgggttcctg aagcntgcca 260
```

<210> 7720

<211> 527

<212> DNA

<213> Homo sapiens

<400> 7720

```

aaggaaaagc tacaaacctc anggttggtt tatttaaacc aaataatctg agcaagacat   60
atatacatta aaaacaaatg aacacattaa aatttcacta ttttacaatc taaattctag   120
caacatatac aaatactgag tgactacagt acatgccgag gtaanataag tacattctgg   180
ganaatatca ctgacgctca aaccattttt atttccaata tgtatttcaa tacatgtttg   240
tttccacttt tcccagtgcc acacacacac acacaaaaac aaaacaaaac aaaaaaaaaac   300
agtcncaagt tggattacat tanaattggt gccacagttg actttaaaag cattttaata   360
accaccnac tcttaaattt tgcagtttag ggacttcnag ttcagaacca aaaagcagan   420
aacgttcatg tgacatgatg tttctatana cctcttgctc tctaagggtga caatgcaaaa   480
ccagggggaa anggnnttaa actttgtccc tccacancct tgttggc                   527

```

<210> 7721

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7721

```

aaaagtttaa gtcagcattt tataaaaacg agaaacaaaa taattgcttt cacaatgtag   60
tacttgaaac taaagttctc cagctatcaa cagatgtgac tccagcatca agggcctagc   120
aggaaaattc tgaatgggtt acaacagtgc acataaattg caggtggctg gggccgtgtg   180
tctatttgat gcttccana atgtgtgctg ctagtcacca tttccaccat tcacatattt   240
aacattttta ttanactttt atttagcctc atcataagaa tataaggag atcatanatt   300
tgatgtatga aatttttaaa ttcacactaa aatacattac gattaaaatg aattatcttc   360
naccaccgtt ttgctatct tttgctgagt aatctgtgcc agtccttggt aaaaatcttt   420
attttaanaa aaaaatttag tttacaaaaa aatttaacaa gtttcnctt aacaaaattc   480

```

ccccggnang gaatcccngt

500

<210> 7722

<211> 474

<212> DNA

<213> Homo sapiens

<400> 7722

```

ccaanaaaa tcattttcta gtctgctccc ttcttcatct gaggtttgtc cttctaactc   60
cttgaaagta tcttcacaaa catctccagt ctctgctgcc ccangaacca ccccaaanag  120
tccccctgat gtctgttag atgactctga tcctttaaaa aattcctgct tnggagtcaa  180
ctctgaaccc ttcattcatnt tctcacccaa ggaggccatg ctatggtgat tttctggcat  240
catgttcac tgcagggtc tctgactgag tgtgagactt tncatttct tctgagtgtgta  300
gtctacanat aggtcctcat atgccacagt atccgaaatc ccactgggga ggtggtgtgt  360
ccctggggtc ataaggangg ctccangtgg gctccanggg ctgagcccca ctgaaagggg  420
ttaggttgga agaaatccct ttgtgtgacc cananctgtt gtctccccga aatg      474

```

<210> 7723

<211> 526

<212> DNA

<213> Homo sapiens

<400> 7723

```

attaaccatg ttctggtatc agaatggtgt tccttctcca tcagaggctg ggaaacgtat   60
tataattagt ttttctcca cataccttca ccaagagcag tgaanaataa ctgaaggctg  120
gaccatgcat ccttaaaagt attgcatgag catctccacc tcagtatgga anagggatgg  180
acaacccct attcatacct ctgagttcct gatggcatta gtcatatagg taagtcattct  240
aataatcttt ctaagactc tgcaatggaa aaactggttg tataaagtct tctctgccct  300
ctccatttgt atcagcaatg gggaatgctg caaacatca tcttgctcat gtgatggtga  360

```

tggtcaaanat atcacaagga gttggtaata anatttaatt ttccagtagc ctgcatgaat 420
 tgtccccaca taaaactgta cagtttagtga ctgaattggt tacttaantt cccagttttt 480
 tacntttgtg gngantgaaa tttaaagggt aatttcttta acantt 526

<210> 7724

<211> 491

<212> DNA

<213> Homo sapiens

<400> 7724

ggtctgatgg cacatattta ttgttctgtg gtctaatac agtgtttcta aatgtaaaaa 60
 gtgcatatgt tgggtgtagct agtcccgcga cattgagctc ctctgcatga agacactggg 120
 ctctgcatc cagctgtttt tattgcaaac tagctccttt ctccacact gggaacttta 180
 gtccacgagg ctgtcaccac cctggtagca ctgggccagg cttttagtagt cctgcagcag 240
 ctctgctacg tcatcgtgct ccactccanc atccatgaaa ctgggccagc gccgcaagtc 300
 naatttggtg aggtctctgg ccaaagcttc cannggtctg gtgcaaggac aaaaaagaac 360
 acatgcccc aacactggga tgctctccac tgctgctccc ttgggggaan caccagaaac 420
 ataccnngtg gactgcaacn ttgaaaaaaa gttgggggtt angaagaacc nccctgccag 480
 ggaattctcc a 491

<210> 7725

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7725

ggaaaaatta ctttatgaag ccttaagcac taagaataat taattaaact gtaatccagg 60
 attagatata atttaataat agttcaattc caaaataaaa gttattgtag gtaagaccat 120
 gaaatttcct aacacttgat ttttaatacat tgcgctaatt ttctaaaaca actcagagga 180

acccatatTT acagtaggca gaatatTTat gaaaaaaatc tggcatcagg tatatTTata 240
 tatgtatgtg tgtgtatacg tatgtgtgtg tatatatata tgtgtgtgtg tgtgtatccc 300
 gagattatat gaactaagaa acaagttgtg tatcttaaca gcagtactan agcgcagagt 360
 ttcagacttg ggatttataa atgctttcaa cgtgtggtgt ttgggaaaag gagaagactc 420
 catctgattt tccaaaacct gaaatTTttc ctcaggactg aaatccaaat ccgtaactgc 480
 cncanaaggg aaaaagggaa acctttcccc cnttattggt ccnccgcgg tccgaaaagt 540
 ccagtttccc ng 552

<210> 7726

<211> 599

<212> DNA

<213> Homo sapiens

<400> 7726

gctcttgttt acatTTttatt atcattatta gtaataaacc aataaaaaact gaataacaaa 60
 ggaaaaagct caagataaat aatttcttcc ttgtgaattc aaacacatgc acacacacac 120
 atcctcctct gtgtgtgttT cttcctcctc acattctgtc ctacggtaca aatagttaca 180
 caaaagtcta caaaacgcga gtagcagacc ccagctgtgt taagctcagg ctgattctca 240
 gtctagatca ccagcttctc cacgctaagt gtacttgtgg tttcatcctc ttcatttgac 300
 ccaaaatata ctgggaggtc cagcatcctc tgctcagcct cagtgaggcc aaacgacgta 360
 ttgtcatana aagcaaactc anggtgagtg gggaagcttt gacacttgtc ttttctacac 420
 tgagaaaggg ctcagaaaac tgaccctctg gtagttatct ttgggggatg tggganaaaa 480
 ctacttcttt gaaaatacnc tgTTaatggg ggggaaggnc cccaagaact ctgttggggg 540
 ccgttctctc attcccgcga ctaatccctg cctgggggan tccccagggt ntggtttcn 599

<210> 7727

<211> 497

<212> DNA

<213> Homo sapiens

<400> 7727

```

gtagaggcaa ggttttgcca tattgcccag gttgggtctca aactcctagg ctcaagtgat   60
cctcctgctt cagcctccca aagtgcgggg attacagggtg tgagccattg tgcctgggtct  120
taaaatgtta aacatggagt tttaacccaa caattctact cttttatata ccaganagct  180
gaaaacacat atccactcta aagctcatgt atgaatgtat gtngcancat tattcatagt  240
agccaaaaag tggaataaac cccnatntcc atcagttgat gaagggtgna tatccataaa  300
atggaatgtt atttggccat aatacatgct atatatgaag tacttaacgt ggataaacct  360
tgaaaacatt aagtgaaga agctcatcac aaaacttcac gtnatatgat tcatccatt  420
tatagaaaat gccanaaca gacaacctat aaaaacaaaa aatgggtcnt tngccaaaat  480
aangggggaa ggtggtt                                     497

```

<210> 7728

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7728

```

aggaagattt cttctttatt cctatttgat ttaaaagaaa aagatttgcc aagggatggg   60
tagggttaaa ttaaaaacat tttaanaaac atttctttat atggagcata cttactgttt  120
ttgctttgag tgcattctga tgaaatatag attccaaatt ccccttggat ctcacccttc  180
tgtctagtgc ttgcccctct atttggggca gtaattctat acatatcctg taaatgtctg  240
tcctgatgat caggatgccc aagctctgaa tccaactgct gccaccaana naacggctcc  300
tttttggagc cattacacac agatcatcac tcaaatcagt agtttctctt tagaaaacta  360
ncaatttinct ggtagtctgt caattaagaa aagaaaatga aattcagtta cttantaagg  420
gaaaactgga taaacaggag gctgggtccaa acggnatatt ntatttagac attccccttt  480
tncctggcct catcctttcc acagctattt cccttccttt aacacaccaa gttctttttt  540
ttttccaata caaaacntaa atncctgang gggg                                     574

```

<210> 7729

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7729

```

ggaattttta atttatttat catgtttgta agttacagac atttatgttt ttcagcaaca   60
gtttataata gttacatctc atacttcaac tattagaaca gagagaacat taaagtacaa  120
agaaagactt caaaaatgag gttactgtga tgtatcataa aaggagttaa aattcaaaat  180
atcaaagacc tcnctatcg gactaaacat aaatcttaaa acctcctatg gtcctctgag  240
cctaaaatta caaaacttag caactgctta aaccaaggaa ttaacggttc tgtgttttca  300
aggttaagaaa acaaaaaatg ctttggtaaa ctacctttaa tactagttaa aatgtttctg  360
ccttgtttgt atctctcttg aaagactgta tataagtaca ggcacagcat ntatttgaga  420
aaacatctca caaatttcat ttactatang tttctcaata atctttacat ttaatcaatg  480
aaaaaaattg atccatccnc ttgaatttta ngttaaaaaa attnaaaagt nttccaaggg  540
ac                                                                    542

```

<210> 7730

<211> 523

<212> DNA

<213> Homo sapiens

<400> 7730

```

cataanagta ctttacttgt ggatttcttg gctaaatgta ttaacatttg tttctnctca   60
ctaaaagtcc acattttcaa caaagctgta tgtgtaagat tgatagtttc attccacttg  120
ttcttttcgt aactggtgta agccaccagg ttctccgtgt actgcaagat cnactttaca  180
aactttaggt actgctgata ctcatgcgca ttcttccac aaacagcatg aatgttgacc  240
aactccagcg caatgagtaa cagtatcagg ctgagcacag gggacagtag tctgatactg  300
ggcctcactc tccttctgca cctgcaaggc tgcggctttc tgggagccag ggctagcggc  360

```

gtatcgctgg ttggtgtctc agtaggaana cgateccaagt cctttaacac acaacaattc 420
tcaggcatat ggtgatacag ctcatccgtc catttttggt atcaaanaan tggcaggctt 480
ttgnttccaa aattatntnc tatecttaaa gggttgccaa att 523

<210> 7731

<211> 317

<212> DNA

<213> Homo sapiens

<400> 7731

ctgttgccaa aaataacctgt ccttacaaaa ccacaattat aaaggtaaaa gtgaattatt 60
agcaccaggt gcagaggcat ttccaaacca gaaacaccan atcttcaccc tggagtggac 120
agaggggagg atgccacctt tgataggact ctgcanagcc cagcctggaa ctgggaaaat 180
tctggctggg gaagccacag gcatcagctg aggggtcatg tccggacccc aganaggccc 240
aganagaggc tgagaanagg agcaccgccg gagtggggga gcagggganc ctgtcggggg 300
anctaaggag gggctca 317

<210> 7732

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7732

aaatctgtag aattctagca aattggttaa aagtcaagtt catgggagat gaangctcag 60
tggatgacac atccagcgat gctggtggga ttcagacgct ttcgcttttc aactcactta 120
gcagcaaagg ggatcagatg atttctgtta acgtgtgtat aaaggtgaac tataattact 180
ttgtgtttac ttctgtgttt tcattacttt cacttactcc cagatatcac tggaaccatg 240
caaatactgc ttattcccta atgtggtttt gaaagactgg gaggctcaga agcaagtatt 300
atgtctgtcc gtacatgtcg tttaaaaaat tattttttta agccagtcaa attgagtagt 360

gggcaccaag cccagcctgc ttctttactt tnnctgtttt aatactatat attggattcc 420
 taaatgttat atgttcacaa aactttttaa aaatgaggaa atgtttaaan aanttttgag 480
 gatgaatgan taagagcccn ccnggtcct tgcca 515

<210> 7733

<211> 539

<212> DNA

<213> Homo sapiens

<400> 7733

atcatcctgc ccatgtcagt atacactctc tttattatgg gaatgaaacc aaataataag 60
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 gagtgatcta actaacttaa gctgaccctg cgactggctg aggataatcc cttctgtcca 180
 ctgcaccgtg caatgccaca ggtcatgana tggtcagttc ctcttgctct gtgtcgtctg 240
 aagcaagtcg aggccctact tctggttccg cccttcttcc ttgggcttag atttgctggg 300
 ttagtnttt gctactattg tcaagactgt actgtccctt taaggtacca catgccacca 360
 tagcttacac agcagtcctt tagtacttta tccacctcct gtttactgag atcttctcca 420
 cactcttgag tcaaccgaga ctggatcatg tttcggcgta cccggttaatt ttgggaaaaa 480
 atttcaagca aaacctgtcn atgctgatac tcatntntcc aaantcccca aaaggnaaa 539

<210> 7734

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7734

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 ggtgtaaata gcatcagatt gaatgaaaag tttgttaaata gcaaccataa ataattataa 120
 taaatataca tcaagtaact ttacagcaca catttttttag ggccaagggt tggatctgtc 180

tggacctcaa tgtgctctcg gagaggcagc cacgttagca gcagatacct tacagcttgt 240
catctactca nntgatggcc aacaaaagct tctgaactcc tcctggggag gtagctgaca 300
attccnttcc agggatgagg actanaaana accaa 335

<210> 7735

<211> 422

<212> DNA

<213> Homo sapiens

<400> 7735

aacttattaa aaagatttta tttagcactt ggttctgttg gctgggaaat tcaggatcag 60
gcagctgtat ctggtgggtt ctcatgactg cctcatgctg catcaaaaca tcgtagnaga 120
aacagaaggg gaccgagttt gtgcaaaca aaagcgcaaa atagaagang cagcattgtt 180
ttataacaac tcactctctt gggaactaac cattcccagg agaaccant ctcagtgtca 240
aganaaagat gttaatccat cttagcaacc taattacctc ttaaaanttc catctccaac 300
actattacat ttggcaattg aactacaaca tgagtttttg aggggccaaa caacatgcaa 360
accatancan cangttttaa ggtaaaaaga tggganaaaa ntcccagaaa gatttccttg 420
aa 422

<210> 7736

<211> 278

<212> DNA

<213> Homo sapiens

<400> 7736

aagtgatcaa tgctggcttt atttcttcat aagcagtaat ttgggtcttt ttcattcaac 60
acaacgcagc attttcataa taaattcaca aaagacaata caaggaaaca cctactgaat 120
agaactctgt cgagcaattc atgtttttaa gttggactct ataccaaact ggcattatgg 180
tattataggc atttgatttt tgttttctta ttttcagttt gtcantttct ttactacat 240

tatttttttc tagccgggaa anaacgtttt atccnnaa

278

<210> 7737

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7737

gttggaactt gtccagatct ttaggctttt acaatataga cttctgtaat atggttacca 60
agagccagaa ttctaagata tagccaagat tctaagattt aaccagtatt taaaatacat 120
gcatttaaaa gaaatccaga acaaacagca tatgaatggt ctggcatcaa aacagggcca 180
ctactttaca gcttaacctc ttctcttaa ggggatctga caacatgcca aacttttggt 240
tctcaactgt ttggttaaaa tttttttaa aacagaatta taatcttgag tnatgaanga 300
aaatgcatgg attgaaacct ccctgtgggt tataaaagtt acagaagaga tttatgcttt 360
ttattactaa actcagtttt aagcattccc ttgtgtccg aaaataaccn aganggaaaa 420
ttaaaccnc ctgggaactt ggtcttgctt tccatgtcca acttctcaag ttagtccaag 480
ctcttncctt atatattccc cgtgaatanc caggtgacaa aaattctttt taaaaaaaaa 540
actggnttnt aattaacaaa aagaa 565

<210> 7738

<211> 255

<212> DNA

<213> Homo sapiens

<400> 7738

agcaaaaagt anacttttat tacagcagca actgangcga atcgaatggc cccccagggn 60
caccactgca ncaccacctt tctctccgc cccggnccg ccagcgggat tgtaaaattc 120
ggctccccta ntgccgtgg gcctccttc cacacaggct gggcggganc cggcaaatca 180
acgantaacc cccaactaaa aagggggtn gctgaaaagg cccaggccca cntctgtgca 240

aaacaagtna acaaa

255

<210> 7739

<211> 271

<212> DNA

<213> Homo sapiens

<400> 7739

aaaacaacac acatttatta cctaaaagtt tttgtgaatc aataattcaa gagcagcttc 60
 ggtgggctta gaatcgctca tgagttgcag tcaagatgcc agctggggct gcagttgtct 120
 gaangttctg tttgggctgg cggatctgtc tctaactgg gtcactcaca cggccactga 180
 caggaagtct tagctcttca tcacagtcac atgggcatct ccatggagct atgtggtatn 240
 tncnccncaa catggcagct ggcttgttct a 271

<210> 7740

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7740

agtttttncaa agtactttta ttcactttat cttccatata tgttatctcc tctgattcca 60
 gcaataacag cccggtgagg tagccagggc aagtatgtat tttacacatt agcaggaagg 120
 gaggctaaac gaggtttatg taacttactc aggctgaaac actgaagaaa aatttgtgac 180
 tctcatttca gtgatgtttt ctgcattatt aaaaaatatt atgctactcc tcactatatt 240
 atgttgatgg ttgaaatgtc attataaagc ttaatttata tgattctctt gatganggat 300
 gatgaagcaa atgctccatc aactcactag tttacagggg caagcatttt cctacatttc 360
 acacataatt tgattacctc tgtcctaagt gaataatcta ctatctgggt atgagaaaca 420
 tgatttgaaa aacactaaac cactatatta tttcaacaaa gaaccacttc acacctaant 480
 taaaaggaac ttcaaaaaaa ntcctaacca aaaaaaatcc aatgatgctg aaatccantc 540

aaaat

545

<210> 7741

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7741

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gaacttggca cctttattca aaacagcccc aaactggaaa tagcccaaat gttcaactgg 60
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aaaactactg ataaatacaa catgaatgaa ttctgaaaac attatgctaa gtgaaaaaaaa 180
ttagacata ggagcatata ttgtgcaatt ccatgtatit gaaatctgaa cacagacaac 240
actcgtctat atgacgggga gcagacctgt ggttgccttg ggcatgggga atcaagagtg 300
gggactgact acaaaaaatca caaaggaact ttttgggttg atagaaatat ttgatatacct 360
gattgcgata gtgatgggta cttaggtgta tgtgtctgta tatgcattan tctgttttca 420
tactgctata aagaactgtc cgagactggg taatttataa aggaaanaag ttttaattgac 480
tcccagttcc ncaggactgg ggaagccnca ggaaacttcc atccttttta aaaaccnaag 540
gggaacccaa anccccc 557

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<210> 7742

<211> 517

<212> DNA

<213> Homo sapiens

<400> 7742

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gggttcacaa aggattatit atcaaattat tgcaaacggn anatagcttg tgacanaaaa 60
tttccttggg tctggaaaat aaaacattta cgtcataaaa acatccttat aaattaattt 120
tacgtaatta attttgtttg gcttgatctt aattagcaat ttnggactat agctgattgc 180
gaacgcttcc aaagaanaaa ttaaaataat aactgtgaat gacaaaaacc cagaacagcc 240

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ataggtaaag atctgattaa cattaccaat taaccaggaa atttaagtgc ttctgtggca 300
 tacaatcatc caacataaaa attgcaatta ttacaggtat ctcagcatgt cagtatctta 360
 ggaatctcat aaaatttcac atttctataa atgatgaact tacacaaaca cagcttaaag 420
 aaaggtaaaa caccatttct tatttgacaa tgcttcnagc agtatttgcc aaataaacn 480
 aatcattaat aactnntcca aaaaaaanc ccttggg 517

<210> 7743

<211> 412

<212> DNA

<213> Homo sapiens

<400> 7743

aatgactta catcttttgt attatccaat acacagtaga tactcagaat ttactccaat 60
 gaatgcatgt taaaaggatt tgtacagaca caacactctt actttcaaan agcagaggaa 120
 cattttatat antgaacaca tacacactgt ggcaatgtna aactacttaa ggaaggaaaa 180
 atatccccct ccccanccag gtactgagac ctggggctaa aattttttgt cagtcagccc 240
 ccatcccat cccttatctt cgagtgcctt taccaggaaa cctggctttg gtggaaagga 300
 aagctgtggg gcttggggac ctgatgcctt ttcttttggg angaaagggc acctgcacna 360
 tccacaggac agggagtggc cagcancat cctgagctga ggctccnaa na 412

<210> 7744

<211> 529

<212> DNA

<213> Homo sapiens

<400> 7744

cgggcactga aatcttttat tcgttaattt agtttctggc aagtgtttcc tcaaaatcat 60
 catgtagttc cttgaacgta aaaccacaca ttaaaaatgt tattccactg aaaatgactc 120
 ctatgcaaat atcgacatgt gatgtgtgtc caaatgccag agcattttga gaaaagaatc 180

ctctacaaat aaaattaagg tataagctga gtcagggatg atccgattcc caccccanga 240
aatggccccgg agctgcacca actcancgag gttggagctg aaaccctgag ttaatgatca 300
aaagggacaa gacaggaagc ctggggaccg tggacaggga aagtgcgcan ccctgattgc 360
cagtgggcgg aacagggtca ggctcgggga aaacangaag ggtggtgggc ggtgggcccct 420
gaacaaaaca ggcctggccg aagctggggg ccactgtgca ctgaggccaa aagaacaggg 480
tggtgggggc annttttgaa angaacaaaa aaggggccnaa aaaaaaccn 529

<210> 7745

<211> 428

<212> DNA

<213> Homo sapiens

<400> 7745

ggcatgaaca tggactacag cgtttaatgc agacccaaag ccacacattt ttggggagta 60
ggttttactt gcagtacaga ttcttttcat tacagatcac aaaaatacaa tacaatgtga 120
caagcccagt ttaagaatta catgcagtag ctcatattaa cacaaacagc tccccacgaa 180
ggccgacaag agctaaatcc ggtgtcaaca gggttcattg caggagtaga ataatccggt 240
acaaggaacg agaacagatt gaaaccagaa acaaagccat gcctgacagt caatcaaggt 300
caatctgac atttccatga ccaattaccc ntgtgaacaa ttcaaaatga cggtggaana 360
ctgagcaccc tgtaccaca cagcatgcc ncagcttggc anaangtgca ccaaccttgt 420
ttgaaaaa 428

<210> 7746

<211> 247

<212> DNA

<213> Homo sapiens

<400> 7746

cttttttttt ntttttttac gtactcatga ttggctttaa tatttcttta cactatacat 60

actgaaaatg tttacattta ctaataagga atgccaagcg tatccatcac catttgaata 120
gcttgcaggg gatttgtgat ttcttccatg ttatctcttc ncaaaaccca atctggntta 180
agtcttgaaa ctattctggt ccttacaggt gtttcnggga taaaaggaat gcttatanaa 240
aaattcn 247

<210> 7747

<211> 515

<212> DNA

<213> Homo sapiens

<400> 7747

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aatataaata tacttccgta attctttatg cattctatac catgattgta tgataatagc 120
agaattttct tcttttagctt gttttcttaa atgccattct ctaaaagctc tttgcaatat 180
tactgtagct ttacttctg attgcatttt acgttgcctc cattttctga acatagattg 240
gattataaga gttgatgatt ttagcatttc atatctttgt tgatcttggt ttcttcttaa 300
ataagcacgc caatgcctct gaaattgtna ctgtngccca aagatatcgt ttataagatg 360
ttacagcaat tatcattctt atcctaaatt ggcgggatga tgaataattt ttccatttcc 420
gaaaatcttt gtccagtggg aatattctcc cccatttncc cggaaaaann taaggncggc 480
tttattttgg aactttttcc cacctttccc ttttt 515

<210> 7748

<211> 156

<212> DNA

<213> Homo sapiens

<400> 7748

aaagggtggg agatatttat tttctttaaa caaggtcata aataacaaaa aacaaagtag 60
gtcccagact ccggaccatg cagcaggaca ggggtgggag gttgttgagt ggaaagggtg 120

aaggggctac acatcaccta agacnttcac anaana

156

<210> 7749

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7749

ctgaggaatt ggctttatatt agataggaac tctcaaaatg ggagacaagt tcttctcatg 60
 ttttcaatag cagtctgaat agcttttgta aattctctta tgtcttttct cctgatctct 120
 gacactaggg gagactcaag taaaagcttt gacctatcac tcatcttttc ctagcaagan 180
 atagtgttct tcaaagcact agcttgata aaaccaatcc tganatccta agctggctan 240
 aaaaaacaaa atcttcccca ccgctcaaac aactggcctc tttccttacc tttcgcaaag 300
 caatgaactt aatgcactag gcattagcaa agggaatcgt tcactagctg cttccatcac 360
 tgggcctgcc aatgtcccag cacttcacac ctgggaacac aagtgttatt gncacaaaac 420
 acaccaagt gtgctatcaa cacttgtgtg gaaangaaaa naatttctaa aaaaatgtca 480
 ccctcccagg nccnaaatta a 501

<210> 7750

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7750

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 tatttataca catataatat acaccatata tacttattta tagatattca cacaccagcc 120
 cacacactcg cacacactca cacgcacaca cccttccagg aggggcgtgt ggctgccttg 180
 gagtcccgt agggcccaaa caagtgatac tgggcttgcc aggcagttgt gaggttttgt 240
 gttttttgct tttaaaaaga angccatttc ctccanatgt gtcctccctc tccccaagcc 300

ctaaaactcc tccccaaaac actctgaaaa aaattttttt aaaacaagag gttttccttt 360
gctctggccc aagtagtttc tggagantcc aggcccatcc acaagtcccg tgcaggtcct 420
aaaacacnaa aaccgggcgt ggccttggtc aggccctgcaa ctgtnccttc tgaagggaaa 480
aagggaagcc tatancatcn aaggcacctg ccaaaataaa gaaaggtgtt gttcctctcc 540
ccccaanggg gctgccnccc cctggttncc aaaaccctcc aaaattt 587

<210> 7751

<211> 573

<212> DNA

<213> Homo sapiens

<400> 7751

acaccaaatt tctgcaactt tataataatg aaaattagaa acaacctaaa tagttaacaa 60
catgggaatg gttaaataaa ctgagttgca tccattaaat ggaatataat atagccatta 120
aaattatgtt ttgtgaaaat ttttaatgcc ataagaaaat gtggcaattt tgcaatgaaa 180
aagatctact tataaaaactg tttacagtat gactccaatt atgtaaaaaa agtatacaat 240
acacatatag gcatacatgg gggttgcttt ttaaagggtg ttacttctgg gttgtgatat 300
tatcagtaat cttttttgct tttttataca tttctgcatt tttcaagttt tctatgatga 360
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cttgggggtat tttaaatata tgggaacaat attataatgc tccanctcca agactttttg 480
ggaatacata tcacttnggt aataaactac atccccgttt tatctgttaa caaattttaa 540
ttaaacagtt natattgtga taaaacatgt tgc 573

<210> 7752

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7752

ataaataaaa tatacaatgc catttattgt aattctagaa aagtttttta cagaatgctt 60
 ttgttgattt ttgctgactc ttctatccaa cctgtttgca attcaaccat gatatgacac 120
 aaccagacta caaataaatg ttgtttacta tctgattcaa caaagcagtc actcatttca 180
 tggaatggat atgggctggt actcagtga aagacacatg anatggttca gtgctaactc 240
 acccttctga cagaaaatgc cagaaagttt ccacccatt gacaggcttg gagtcttgan 300
 taccatctgg gtgggtggag ctggcactgg cagaaaacct ctccactgct atcctgacag 360
 anatggggca tgtnttccc agggccactt gccaacccan ggaggttttc catcttgctg 420
 gtttggtgaa ggaagctgct ttcaaatttc aagtggacct gctggcctgn ataaggctna 480
 agggcctgcc tccaaaaagt ttctcncctt gttggcatta ccccngaant t 531

<210> 7753

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7753

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 aacttctctt tagaaaaagt gccgttcttt gacatccttt acacaaaaac agtctgagcc 120
 tgtggcatgt taatgcagtt gagaggcaaa gcatacgaac tttacaaat tctaccttcc 180
 ataaaaagcc tcccgaag gagattacac gccactataa aaatatcaac ctcttgtggt 240
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 ganagcatat taactgcatt ggtggcttgg gagtgttctg tgccacagga ttatgcatag 360
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 agaagtacta ccagcccatg caaaataact aaaaatactg aatcncgtg ctgaatactt 480
 cctcccgga anaaaacca agggcgccgt tacttaantc caaccaacn ggggacaaaa 540
 ntccccccc caaaatt 557

<210> 7754

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7754

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actggtggat gtcctgttttc tttattggta gtttggttta gaattgtgat gattacaatg   60
gactcgtgac tacacaagca gtaaaaagca gccagctgtg cttttacacc atggtttcac   120
acaaagcagc taaagaaata tcagaatgcc taattttcta tttataaaa gccctaaagg   180
catatggcag aagaatgctg gaaaaatcac tgtgggaaga atatgcataa ataaanaagt   240
atttcttacg tcaaaaaagt cccaagaaat cacaaaaatct gcanaagctt ggттаатcaa   300
atactgcagt actgatttaa tcagtataaa atcnaaagag ctttagatct gtaataaaaa   360
tccaaatttg gggaaggga aactttaaaa cagcagccaa ttanaaaagg gttggggaaa   420
ggaaaagtaa ttgaacagcc cattggaact gtggggacat gtactgacca ctgtcaaacc   480
atgttanttt cttggttccc ctggaaaacn tttatacccc tattttcctc cctcctctt   540
aantccacca tgtccaattn                                     560
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<210> 7755

<211> 258

<212> DNA

<213> Homo sapiens

<400> 7755

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acttaacatt atagtcattt tattgctcta ganagtttag tttctaaaac cattggatta   60
cttacatagt gacaataaga ctagccacat acacaaaatc aactgtatga ggctgcttct   120
ccagcttagt ggacaaatat tacaaaaata caaaaatagc tgattatagt taagctatcn   180
ngtataatat ttcattgtatt taccctaaga atatcccctn tttatagata aggagatgaa   240
cangngtaaa actaatgt                                     258
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<210> 7756

<211> 295

<212> DNA

<213> Homo sapiens

<400> 7756

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gnngnggtat ncacttcagt aacttgaatc cacagatatn agcagtatat aaccagaaag   60
ttacaagtaa acacaaatta tacatgcaaa tttctgttca caaagggtcac atgtgcaggt  120
acatgaatta gaagcgtgca tctaggatta tggncaaact gttttaaaaa tgcagaaatg  180
ttaaattaca tcttgaaaat atgaaganat ggtctacaca cttcaaaaat caaatgttgc  240
ttatnccana natgtttgac aatcacggga ttcnagtgc aagcagtaag atctc       295

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<210> 7757

<211> 217

<212> DNA

<213> Homo sapiens

<400> 7757

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gatnttttta ttttntcaa cactgttaaa aacatttatt ctgatacatt ctatcataag   60
ttagnacaag atccactctg ctacagatgc gtctgtgaan agcctngtgc catccaacta  120
gtgactgaat gatgtcccat ctcttatccg agncagagca cacatcttcc atgctgtccg  180
ctgattgnct ccaaatccan aanaccaa atnctt       217

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<210> 7758

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7758

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aagattatac gaagtgattt attgatactg gttaacatcc attatataca ggtagaaact   60
ttcaaaattg tacaagaac attaagcata ttgataaaga cagttttaca gacaaaacaa  120

```

ctggaaaata gttttaacat acacaatata taattatgaa aaaaatgtag aacacatatt 180
gttctaccag ataaatccca aggttattaa aagtctgcta tgcagacctt aagttgaaaa 240
atgtgttcaa tggagttaca tggttttaga aaattaagta taatgtnaaa attaagcttt 300
tttttctcat tgcaattggg agaggaactg agacaacttt ttaccccnaa tctatacagt 360
ttgaaaaata atttatatgt ctagcataaa gaaaattgag aatgtttatg gttctgtgaa 420
cttgnctttt atgaaatgcn acccctccgt ttnaaaaatn agaaacctgt gcntccgaaa 480
ccgaatgggc ccc 493

<210> 7759

<211> 385

<212> DNA

<213> Homo sapiens

<400> 7759

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gagtcntaag gggcaatagc aatagagatt acactgtgct gacacagana ctaaattcta 120
gtcagantga anaccatata aaagggcggc tgatggttta aaggaaataa ctacatggaa 180
tctaattcca agacatccat gaagtttaca tctccattat taagccctna agtaatgtta 240
agaaaaacaa ttctccaaca aaactgggag tccacagttg tcaagtatgc tttctcaggc 300
acgggggtng taaaantctg gagaaatggg ttctctccat gcccaatgac aancaagac 360
ggtcctaagt ttgagggtta naaca 385

<210> 7760

<211> 440

<212> DNA

<213> Homo sapiens

<400> 7760

acagtcatgt gtacaatttg ttacaaaacc atagaagact acaacttggt ttaaatacatt 60

tttggctctgc aaatatgtaa aatctgtgtg caattatcat gtatttacag ggtcttgtgt 120
tagtcatttt caatgattat tccaacaatg tcacactctc aacataagac atggcttaag 180
ataaatatat tagcaaataa atattctgag aacatatttc cataaatgaa atgtgctgct 240
atacatatac agaataatac taagttgtct tctagctttt aaaacatttt ttaaaaatgg 300
taatgttgga aaaagaccct tagaccattt tattacaaaa tctttacagc aaggtcttta 360
caaaatctct ttttaagtgc atgggaaaaa ttaaaaaatt ttaaaaataa tgnccctgtt 420
aganccnccc catanaaana 440

<210> 7761

<211> 481

<212> DNA

<213> Homo sapiens

<400> 7761

gcaaactcaa tctttattgc agctgaaata ctattttcgt taagtctcgg acacttagac 60
ccactgatcc tgttactctg cttgtctctg gtgtgcaggg aatcattttg ctggattaga 120
ggaaagggtgc cgccgtctgt ttccatgact tctttaaaaa ctgccttgaa atgaaattag 180
ttcatctgct tgcttccgtg tggcagcctc ctggcccgcg gctgtgccag gcaccagtcc 240
taagangcat ctatagacta gtgcttatgt gggaccccaa gcctcggcac agctccatac 300
cacctatcct gagctgcctc ctgggggacc gtgctcttca gcttctacca gcaaggaagg 360
canatacggg tgcgtgcgtg gggcaaaaaa acacagcctt ctganttcan ggtctcccag 420
atcttcactg ggctctgaac ttctgggnct gtggnccctt gtttnggccg cttctgctaa 480
g 481

<210> 7762

<211> 423

<212> DNA

<213> Homo sapiens

<400> 7762

```

ggtgatgaaa aaatgttttag tttattttaa attcctgttt agagtcaact ttatttactg 60
gctcctgtaa ccagtgaaac attctgaaat gtattagata atggttgtat gttttatata 120
tttcatatcg aatatagtaa gtgatttaat caattaacaa aagtcntta tttgtgaaca 180
atgagagaga ctgacactag ctttgtatgg ttttactttg gaaaatttta caaattttaa 240
gtaataaatg tattcatttt ctcaactctgc agaagttcan ttttaaaaag aacattactg 300
ttctaaaatt tcacaacata caacatantc tgtgcttgtg acatttccca atttgtctgt 360
gacagctnga tgttttgaaa aaaaaagaag gagaatggct gtnattggan aaaaaaacn 420
aaa 423

```

<210> 7763

<211> 500

<212> DNA

<213> Homo sapiens

<400> 7763

```

attgtatgat tgtgtttatg tgaaatgccc tgaagaggca aatccacaga cacacaggaa 60
gattancggt tgcccganga tgacngtggg ggaaggggaa ctgctattgg acatggggat 120
tctttttaag atgatggaaa tgctttgtaa gtanatagga gtgatatgtg cacancactg 180
tgaanatact agaatccatt gaattgcaca cttgaatggg gtgaatgttg gctgggcaca 240
gtggctcaca tctgtaatcc taacactttg ggaggctgan gtggcangat cgcttgaacc 300
caggagtttg agaccagcct aagcaacata gccagaccct gtctctacaa aaaataaaaa 360
aaaacattan ctgggcgttg tggcatgcac ctgtgggtccc agctactcan gangctgaag 420
cgcgangacc cttgagtcca ngaagtcgat gctacagtga actgtgatca tgccacctgc 480
attccactgg gggtgacant 500

```

<210> 7764

<211> 494

<212> DNA

<213> Homo sapiens

<400> 7764

```

aaccaaagt tatttaatat cttaaaaagt aacacaatcc aaaatggata tttcacacaa   60
cactacataa acaacatgaa acacagtatc accataggga gggactttca aatatagact  120
tacaanaaat cctgtccttt tttttctttt aagttattat actaagcatg acaagtaatc  180
atcatttaca gtatggtiaca ctgacacgat aaaaaccatg ttacaaatgt gctgtttataa  240
atcagtaaca ttagggaaga catttcatga actgtaatta tttcatatga aatactatac  300
aatataaaca gaacatccat cttgggatga nctttacagc aaccagagac caagtaattt  360
aaaatttttt ttcagtgcaa acacatttta ttccaagggc agtcctgggt gcaaaacccc  420
ttctaacatt cagtaaatec cncitgnccg tcttaatccc ttancccaat gcaatntccc  480
cttcccgtcc cncc                                                         494

```

<210> 7765

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7765

```

atntcattaa gatttaatag ttttttttgg actaagtant ggaaaaactt ttatacttaa   60
ctganacatn ttgtcaaggc taiaaaaaag tcttgcaaaa tggggcagtg gactgacagg  120
ctgacatana aaataaactt tgcccaatca caacttgtgc ctcccatccc tggagtactg  180
actggcaccg gtaggacaga atctctttga atccattact ccatgcccc ttgaggcact  240
gttgaagaaa tctcactttt cagccanggt actggttctg gtacatatgg atcataantc  300
catttgggga agactcgttt atacaggttc atcagtactg tgtcttgaga ttttagcttc  360
ccatcaaagc tgcatttcat gtggncatgg gtacctaaag gticcntgat atgtcctctc  420
cgggcccact ccgtctcagt tccctggggn taaaacacaa cacaccncct ctgttgaaaa  480
aaattttacn ttt                                                         493

```

<210> 7766

<211> 309

<212> DNA

<213> Homo sapiens

<400> 7766

```

agtctgaaaa acataatctc tataatcatt taatitttct ttttgaaaa tgtatgtata   60
catacacaca gtttccataa aaaaacatag atagtaaagc tgattaaaat cttcctgtcc  120
tattggtacc agcacatgaa gcccttctac aaaattcctg acggactggg aataaaaatt  180
cctagtgaca gnccactcct tctcaggcag gtgtgattgt ttgaaatccc tcccnatatt  240
gaaatgaaac ctgnttcccn gtaacttccc tgtaattccg tgggtccctt gttnccacag  300
aaaangcag                                     309
    
```

<210> 7767

<211> 499

<212> DNA

<213> Homo sapiens

<400> 7767

```

acagatgtga aaaaagttaa ttttctcctt gtcataattc cgattgtcat tttgactcaa   60
aattgttccg ggtattgttt tctttatcca taanaaatct catctaacac tgccatttgg  120
aaagggaag aatatgtcac aataggggaa ggtacttcat caacatgatt gcacacattc  180
cattttctgt acataaccaa agtataatat ttagtgctaa taaacctatt ccagatcttg  240
ctaatagtan gaaatggaat tttaaaaaag gcttttaata caaaggaaaa acttttcctt  300
ttttaggtgt tgctgttagt ttatacggcc aaatcctctc atctgacata atcaggccta  360
aggcaattaa tggtaaaagc tgattaaagc aaaaaatcct ttgaaaaca atacatnaaa  420
aaatacttaa acttaaacaa gaccttacia cattttgaac tcccanctat ggtggcaaaa  480
cntgccggtc tanccgtna                                     499
    
```

<210> 7768

<211> 472

<212> DNA

<213> Homo sapiens

<400> 7768

```
gtttttttgc ctgtgttaag tcctgttgat gtttaagtcct gttgagagca ccaggtaaac 60
actctgcacc ccttctctta gtagtaatag gtttttact ccttggcctc agctgtcctc 120
acaggacagt gggggcagat cagagaacac atcagaaata catacaaaga aatcgtacaa 180
actggacagg ttccccctccc cctgccacaa ctggcatccc aacagaggga acaagtacta 240
aatcattttt gacgacgtaa ataagactga aaacagggtta aacagttgct gaacttaagg 300
gcatgacaaa aaggactcct ctctctgacc caggtaggca aaatgctttg ggtgtgaggt 360
aaaaaaaaatg ggtaaganca gctgtacana ntgggggtgaa atgttaaaca gggtgcaatg 420
cccaagggtt aaaaaccaag tccagcgcaa gcctnaaaca caggangcct cc 472
```

<210> 7769

<211> 301

<212> DNA

<213> Homo sapiens

<400> 7769

```
gggggtccgc attttcttaa ctcgttccca ccgtcactg gagaagcctc tctttccagg 60
cgtctcttca gttttctctc aagantgtta attccatctc gcttcctcg gcaacagtca 120
ttcttctcac tgctgggtct cactgggtgaa cttcgggtcaa tctgctgaac aaggcttggc 180
tttgcaagta aagtctggta aagttcnga atttcaagna aggatacctg gaacaactgg 240
gcttccatca ataattcatt cacttctgga ctaacacatg gaggggatac nacttcctcc 300
a 301
```

<210> 7770

<211> 288

<212> DNA

<213> Homo sapiens

<400> 7770

```

gagaagaccg tgcttataat ttaagaaact gaaactacat ttttgcattt tagtaaaatc 60
tgagattgta cagtttttaa tctcatttcc acagacaccc agcaggcagc ctcttttctc 120
ttagaaaaat caaacatgca agccgtgaag tcaggaatag ctgaaccctt tggatnagca 180
cacnctttgg gcttctttta agcgagcctc tcatcaagag catttccttt gctggcatga 240
aggganggct gtgcctgcc a nggctagcac ctgggangga cgctnacn 288
    
```

<210> 7771

<211> 324

<212> DNA

<213> Homo sapiens

<400> 7771

```

ggagttcatt caaaatttat tgagctgcaa ctgtgtgctc agcaatgaga atatagcagt 60
gagcaagatg tgaacaagat ctctgccctc gtgagcttac aatctagcag cgcagccagc 120
ctattacagc cataatttta caattgtaat aaaaactctg gaaaatgcat ggtgctaact 180
gatttatcan aaagtcttga cccaccaaga aatcagaaaa gacctccctg aggaaggaac 240
atttaggatc agctaggtgg aaagtgaan gaagantgtt gcaggcagan angacagtgt 300
gtgagggtct gaggcaanac atgt 324
    
```

<210> 7772

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7772

```

aataattctc tatttattaa aaagggtcct acagctttac agccacagca ccggacacgg 60
ccctggacag cgaengcgaa ccggccaggg gccgctttgc aacttcaatg ccaagctcac 120
gtctggctgc gaccgtggca ggctgtggca tccccgacag cggccggtgg cggaagtatg 180
ggggcgggtg gcaccgctca ctcgagattc acagaacatg gcaagcccgc ctgactggca 240
tggcagttaa tcntcctgta cagcttcatt tcaagaaaac agttacagta nanttcaagt 300
ccgagagcan gaatgtatgg tctactgagga caaaangcaa tggcctggcc cgtggcccaa 360
accccgttc agttctgcct tctgtcacc tggcggctaa gcacaagtcg gggccctgga 420
tccccacaag ttacaaggga agggcnggcc aaaaagtccc ctgtggttaac ncctccgcct 480
tttccntcac angttccact gccccctgct tgggcccctgg ggcctccacn cactttgc 538

```

<210> 7773

<211> 490

<212> DNA

<213> Homo sapiens

<400> 7773

```

ctggagtcac aatttcagaa agagtaaaga taaactttct tattaaaaac tggtttttagg 60
tccaaataat gaagatgtag aaaaacaacc tacagtccca ttataacatt ttgaaattca 120
tttataaaaa atttacagca gctgtaaagt ttcagtatcg taaggacaac gtgacacctac 180
aaacagccaa aggatgtaga caagatgttt ttctgtcttc caaataacac aaactgaaaa 240
gaaaagcctt tgcttttctt tggccacata aaactagtat ttccacacta ctggttaata 300
acccaagaa acctttgctt ctcttagtca atttgctcat tatggctaca agactacagc 360
tcaacatcac aagcccagaa aaaatgctgg taganatcca tcctgagcat ttcccgaata 420
cccatcacia catttccagt gcttncctat ttggtccana nctatcntac cagtccttgg 480
ggcaaaatgc 490

```

<210> 7774

<211> 425

<212> DNA

<213> Homo sapiens

<400> 7774

```

accaagtgtg tatttcaatt tactgtatgc aatctaaca aaatttggtc ataatttacc 60
agatatacat aaatgattta agtagtaaaa gaaaattcag cttcaagaga gtaagttcat 120
atcttgagga aaagtaaaag tacattaaga atgtaaagcc aagtccagtt tctatgcaat 180
aagtgaactg tagtctaata aagcagattt aggtgatttt tagatatata tctttgttct 240
ttaatatata tttatatata gacagatcta ccaattgtaa actagtttat ttaaaggaag 300
gggataaatg ggatgaaaga aatctttata ctatacttnc atattcncaa agaacattta 360
cgtttaaaat acttttccat ccatagtatc ttinggccact aattcctnca aaaattcntt 420
ttacc 425

```

<210> 7775

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7775

```

gatttgataa atgtttaata atttatcaag ctcagaaaat tttgggacaa agtaccattt 60
aaagataaag caaataagta cagctaaata ttgtagtagt gtataggtgt tacactgaag 120
cctgtgtata agcattaact atgtaccaat aaatgcaaag aaaataaact ttggttatag 180
cttatctaaa ttaatctcag aatttgacaa ttaaacadat gaatttgtaa taaacattct 240
gcattttttt aaaattcntc catatttgn acagtggcna aataatctaa aatcagaacg 300
ctttcctgaa gtatattatt ataattcccc acccctgaca gatgacaatt ttagaacanc 360
ccaaatcaat tctagtttat gccctaaaaa taaaatgtta ccagatagac aacnccat 420
aagtataagt tacccttcc aaatttnagt aantttatit tcccangtgg gaaaacca 478

```

<210> 7776

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7776

```
gtacacaaat gttcataaca gctttattta taacagcccc aaactggaaa caaccaggt 60
gtccatcgag aggtcaatga acaaatctat tcaatgaagc agtactcagc aatgaaaaac 120
ataaaaacaa aaactcgtga cacatgctac cacatggatg aatctcaaaa taactatact 180
gagtaaaata tgcctgacca aaaaagggat acatattgta tgattcaatt tacatagaat 240
tctaggacat gcaaactaat aacagggcac aagggcactt gggaatgatg ggtccgttcc 300
tcacttcagt tgtggtgata gttttacgca gggatatacat acgccaacac attgtacact 360
tttgatacgt gcagtttatt ggggtgtcaag tacacctcct aaaataaaaa tattgatggg 420
ctctacattc tgganacacg ggcagtanaa ctattatttc cacttgaaat ttttacctac 480
cctttggtaa aaattctttt ggaacttttc tcncancn cggcaaggaa aacaaaangt 540
ttaac 546
```

<210> 7777

<211> 493

<212> DNA

<213> Homo sapiens

<400> 7777

```
aactttagaa tttcatttta ttaaatacat ttttaaaaca agcacctctt ggcaataaaa 60
gcaaaaaaaa aaaacaaaca aacaaaaacc caaccaaaaca atagtactcc ttccactcta 120
tgctaacgga agactttctca caccagccag ttaaacaatg aaattcttaa acacgcagcc 180
tgctggggct gcatgcagag ctaaaatgca ggtgtgctga cttcttggag ctggagcaga 240
ggaaaacatc aaaaagcata tctggaatct atcacagctt tctttcttaa gcaaataaaa 300
atgcaaatta gtttcataac cacaattcaa tttatcaaac tttttctgaa gaatttncat 360
ttaattatgt tatacataac aggaaataaa acttttncac aaacactctc aaggnttacg 420
```

attatcaaga aaatgacaaa gttaaagcag gaggaatntt tgacncatgg gggggaagnc 480
aattccggtt ctg 493

<210> 7778

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7778

aatacatgac accaatggat attttattat agcttcttaa ttatttaaaa agaataacat 60
ttgttagtat acagttatta taaacagtta attgtttaca ttcattattt gtattcaaag 120
aatcctagcc gatctgaagg ctttcccata ctgcttacat tcatanagtt tctgccaagt 180
gtgagtgtt ccatgcattt gaagtcttga ggctgatctg acggctttcc cacattgtt 240
acattgatac ggtttctccc cagtgtgagt cctttcatga tattgaaaag aactggaaga 300
agtgaagct ttgtccacat tacttacatt catagggttt ccttctggtg tgtctttaca 360
tgtctatgaa agcaattaag caagctgaaa tgctttccca caatccttac attcatacgg 420
attctctctc gtatgagtcc tttcatgtta tatgcaagga anaaaaataa ttgaatgtt 480
gtttggcatt ccttaacatt ccataggtn ctctcccgtg tttnttttg gcctgttttc 540
ccaaccaatc ttngggnaaa atnt 564

<210> 7779

<211> 447

<212> DNA

<213> Homo sapiens

<400> 7779

aaaacattaa ataattttat tcttttctca tttacagtag ccagtggtta agcatgttag 60
aaaacctgaa gaaatttaaa agtttttggt ttacaaaaag catgtataaa aatacctgtt 120
cagacaaaca aagatctgat cattacattg ccagcttta agaatgcaa aaataactaa 180

aatactgtca atcaaatgag agggctacat gggtttatta aagtttattt taacaatttt 240
 agctaagcag aatgtgctaa tgtaattcaa gttacagtta ctgccagata acataagaga 300
 aaacattgtg tgtggccact taagattatg cctcaaacag atactgtttc gtgcgcagaa 360
 cananttggg gaacacagct gggtnagtt tcaatggtaa gcncataaaa gatcnagaaa 420
 atccccact tttctaataa ccgctat 447

<210> 7780

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7780

cccttttaaa aattaaaact ctttatttaa acctcttaat agcatcttat caatttggtg 60
 gcagcagcag aagcactacc aaagacagat attttgaaaa gcatttacia aaatacattg 120
 cacaaagtcc tatcttgcac ctttaaaaat aaattaatat tcaaaatatt tccaccccaa 180
 atcccaaate agttttatat aggaaatfff gatttatata tgtaacctgt aatatatgaa 240
 acatctgtac attttatctg ccttaactgc atagttccaa ttctaaggag agtgaaaaaa 300
 atgctgcttg atgtatgaat agtttcatac atcagtgtat ttgaggactg ttgtgcaata 360
 tacagaaaac cagtcagcac catcgttttg tctttttctg aaaacacaac atttacggta 420
 cactgaaaaa ctgtcttaac ccaacacaac ttaaataatt cttanggtaa aacatctgtt 480
 acactttaag tgcctggtna attctcattt ataaagtccg gcncngtaaa atatectaate 540
 tttanttg 548

<210> 7781

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7781

aaggaaaaac acattttaata aatacaactt ggaaacgtct ttttctttaa attaggttca 60
aatactggga gacaaacact gaaacaaaag tcttaacaac gcacttacia gccatcataa 120
catgcagtga tcctgcgaga cactgtgtcc actcacagcc atgttaactg ggggccactc 180
cctgctgccg taccatcata tgaatataca ttgttcagta aaaatgtgac aaaaatgtga 240
tgtttttcca ggtttgtgtg ttttcataaa gttactcagg tttttagana atgaacatag 300
gaacatgtag gatccacaat ttttaatgtc ctcaggttag tttgtattta caaaactcta 360
agaaaataaa tgtgtgttat gtttggaact gctgctttga atgcaatata tccaaataat 420
gaagctgaac ataaccaana cgggaaaant tatccaaact ttcccaaaag cctatttggg 480
aataccaccc cttggcttna aaaaaaana tggaattttt taaccatttc canaattaaa 540
aaaaaaattt atnggaagna 560

<210> 7782

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7782

gctaaggtag atttattgtt acacatggtt agttttcata acataatccc ctgccccaga 60
gcaactcagg actccatgga gcaggaagcc tgctcttggt catagctcat accacagcag 120
gcaggtcacg ggggcatgct gtgctgccaa gtcctccaaa ggaagtcaca aaggtttgca 180
tttgggacat ttaaattcac aaaatcagga gaaacaataa atgcacaagg gctggtgcat 240
atactttggt tacagtgcag ccaccacaca cggtcacgac tgtgcaaaaa tgctttcaaa 300
tcattaaata aaaaagaact cacacaagct ataaaaatgt tgccacaaaa agctaaactt 360
tcctctaaaa aatattaact gactttgact atnaactaac tccanatttg ctaaagtaca 420
agtnttggtta ccataaatta attatttttg ttccataaat tacatcctat naatccttga 480
aaaaccaact cacanggctc ttgaaaaaat gggactgtcc tccntcctgg ganattttaa 540
ggaaattant tttgc 555

<210> 7783

<211> 506

<212> DNA

<213> Homo sapiens

<400> 7783

```

aatgtttcat tctgtattta aatttccttc aanaaagatt ccttgatcca gtagtaggga    60
actctgtttc tgtacagtta atgtgtaatt tttatccttc tggcaatatt acaaatactg    120
agtcatttaa tcttcattgt ttattctcca ggggtaattc ttgagttatc tcacatgatg    180
taagtacat ctttgcagta tttcatggat tccatttggt ttgtcatagc cagaacatca    240
tgaaatccag tacttaggcc anacatatgt tgaaagtatg cctccttttc cacttgaatt    300
gttaaattgt ttactccagc atctttaagt attcctgtaa cctgctgtac tattctttgt    360
tctagcacat caaatgtcac ctgtatatga attgttcng ccacaatact ancanaatga    420
ccccaaaatg aaggtctcgg tatganatta accctccaat tttccgtttc tttccaaagc    480
aatgttatc cttttccana tccngg                                           506

```

<210> 7784

<211> 279

<212> DNA

<213> Homo sapiens

<400> 7784

```

ggcttgtttg atgcttttaa tatcattatt tgtgttacac gatacacaac caangatgat    60
ggccaatact gcaatgaaaa tgtaaaaaaa aatattatac acgntcatg tcttccacac    120
accttcctgg gaaataaatt agtgagcacg gagaaactgg gctgggtggc ggccacagct    180
ganagaggag ggagtgttaa ggcagtatct acaangggaa nggtggcagg agggcaagct    240
aaggcctana ttcttccttc caacctccca nacagggaa                               279

```

<210> 7785

<211> 244

<212> DNA

<213> Homo sapiens

<400> 7785

```
catgattggt ntaaagtttg attgtnaact ttgctgttgg atacaaaatg aaggcataca 60
actgtcacag gcagggcant aagtacaaag tctaagctgt aanaaccgtt tgaaaatana 120
anctcgtttt tggaatacat gtgtcaaagg ctgcccattg taataccttt ggggnataaaa 180
cggtaacgat nccctgtgac aaaccntcc atcacctgac gcacattcnc atctcctggt 240
nact 244
```

<210> 7786

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7786

```
agttatacag gttttaattc cagacaacag aatagtggct attaacaata aaatcagtaa 60
gtattctgga catgtttaac ttgaatattc aggtagggga ttttattgga aataaggatc 120
tagagctagt ggaagaagti atatttagga ntcattccaca aagaggcttg agaaacaaat 180
gaaaatgtat tgagaagtgc atanagaaca atgttaaggg ggctgtgggg aaaaaacaac 240
atttgggaaga taactgaagg aaatcatana ggaaaaatag tacaatctaa tttctctccc 300
taactgaaag caaaaccact ttttaatacta agaatttatt atgatctctc catgatacta 360
ccattttttc aatcccaaca atcatcatca catcccagag ccatctcatg acaanancct 420
ctaaatatta attgcctgaa cactgaagaa aattatttct gatctaaggt gttacttatt 480
ctctttatta aaaaaaaggg ggccagnccc ggtnttcctg cctgttttcc cacccttttn 540
ggaagccaag ttngtt 556
```

<210> 7787

<211> 540

<212> DNA

<213> Homo sapiens

<400> 7787

```
ccacactttt tggtttactc ctacttgagt taagaacact aacaataaaa ttgcatgca 60
atgaatatgg ttctctaaat acaacagatg aattatttta catacacatc ttatttttat 120
ttatgganaa tcggttaata aacacatttt aaattcaata tattatgtat ttatgagcgg 180
gaagcaacct taaacatttt aaactccaga aatatacaaa acaattataa gtgaaataat 240
acaaagtccc ttgtgttttg atcctggagt caaaccatag aaatctcagg ttattaagag 300
aactttgaaa aatattgttt agaatattaa aaatcatgtg tttgggggan gggagggaat 360
taacagcctt tctttgcctt aaaatacttt acgttttatg aaattgcaat tggaatgaag 420
cagctcctaa agtagtcagt gttcagagga agagaaaatt gagcacaaga nccaactacc 480
attttactca gtccanncaa tgcttaactg aanaactcac ttaaaaaact gttnaaggtc 540
```

<210> 7788

<211> 450

<212> DNA

<213> Homo sapiens

<400> 7788

```
acaaaaacct ctttgagtcc tttattaacg tctggagatg tgtggtacat acaattaaca 60
gcatcacacc agctacagaa gtacagataa ccaagaatgt ncttcagaac aaggatctga 120
gagcaactta tgggtgttgc tgctctgaac ctccacaaaa acccagttct gacacacgca 180
agacagacga tataacaatt tcncttgga atggtttttt ttaaaaaatg acaagaacta 240
atagttcaaa ccctttagan tgtgagatgt ggcagctcgc ttggtgccgt ggcactgctg 300
gtaaaaagcc aacatgggca tttgaaggtc aggcacaaag aaccaatggg gtgggggtgga 360
aaaagtttta ttncactgt ncaaanatac agatgggtccg agtggatact tccgtccagg 420
ctcatntggg gctgcangaa tcccctaaat 450
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<210> 7789

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7789

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attatataaa cttaaccttt taatactggt nattttnagc ccattgttta aaaaataaaa   60
gttaaaaaaa ttttaactgct taaaagtaaa gttttgccat tgnttggaga aacttttttt  120
tccttctctg cgctgccagn tgtaacactt cttctggatt gctggcattc aactctgtct  180
ggccgatgga tttgattgca atttgtcttt tatctgttac tcctctttta tgatgaagat  240
aagtcaagta ttccaaaatg gtaacatccc atatgtagtc gtagtaggag tccatagcat  300
catgactgtt ttgttcttgc aaagatttaa acgctgtttt gtagtcaatt tctctgagga  360
actgacataa aatagccacc tgtgtgtggc aattcagcaa agaacaacat gttatcattc  420
gtattattac ctggtctgta taaacatcaa ggggcacagc cttgttaaag aagtcagaac  480
acacagctcc tggctggaag taatatnaaa aantgntgaa tactgaatcc ttg          533

```

<210> 7790

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7790

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cagtttacta aatcaacatc ttatatttct atactaaaca ctagccacta cttgagggtt   60
attactgttg tgattatggt tataaaacag ggacatcttg cataccccta atggtgtgaa  120
taaaatcaac tgtgtcagta cctttgagca cttcataact taaaattcta aaaaattgag  180
atttggacct acagtttgct atttaacana ccaagtctgg tcttganant aaaaccccat  240
caaaaactgg attaaaaaac ctcatccagg cagctngctg tgacaaaact taaatcctgt  300
cgtacgttgc ctgggattcc ctcaaggtct tttncaattc tccgaggaaa taatgacttg  360
cttcagtccc gctctgtgtg ccgccagcac tttgtcttta attccccac tggaanaana  420

```

anaacnctca gtgttatttc tccagtcattg ggtacatctg aacgttccac ccnccccctaa 480
aaattg 486

<210> 7791

<211> 498

<212> DNA

<213> Homo sapiens

<400> 7791

gaatcgttgc gattaacttt attaatattt taaaatatga aaactgtaaa acatagtatt 60
tatgtaaaca cctgaggact gttcaagtgg gtacagcatc tncatacaaa caacttgaaa 120
gaagaccaag ttttaagtaag aatcttatga catgtaagga ataacataaa tgaagctatt 180
ctttaaatag ttgcattcat gtctaaagta catttggttt tctaaaaaga aaatgtacat 240
tcttgcccct ggtgaatatt ttattggcat ttacaacaaa tggctaatac ttttataact 300
gattctcata gcttataaac attacatcaa agttacacaa agtaataaca ataaacatat 360
agcaccattt cctcttcaaa gttctaactt ataaaataaa gcccacaaaca tggctggggc 420
atggggggct catgcctgta atcccagcat ttgcaaggg ccaaggtggg gnggatcncc 480
tgaagncnag aatttnga 498

<210> 7792

<211> 475

<212> DNA

<213> Homo sapiens

<400> 7792

gttttttaag aaaaaccaat cgctttattt ntctcaata tatgtttaga aaactgggtct 60
gagaanaggt ttcatganat agaccagagg actatgtaca aaatcaagag ttctaaacca 120
ataataaaaa gggcacaatg aagcacacat cccagggggc cacggnagcc taggaccttc 180
ctatcagtgg ggaggcaagg tctttgacgg cttttgagtt cagctgaggg atcatgctga 240

tcttcangag tttgctgctt gcatacttat tcttgatggc gatgaattta gtttaagtttt 300
catttacttt caccacattc ttggccatgt gctgcatgac ttccaatact tcattctctg 360
tgtatcctgt gtaatactgc tgctttaagt tccattttcc ttgtcctana acttctgana 420
caagcaggaa gcagctgctg ctacctttna aggatgataa tgcncatat catnt 475

<210> 7793

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7793

gagtggagcc ttgctctgtc gccaggctgg agtgcagtgg tggaacttgg ctcaactgcaa 60
tctccgcctc ctgggtttta gcgattcccc tgcctcagcc tccagagtag ctgggactac 120
aggtgtgcgc caccatgccc agctaatttt ttgtatttta gtanagacgg ggtttcacca 180
tgttggccag gaggggtctca atctcctgcc ctcatgatct gcccgccttg gcctcccaaa 240
gccccctttt taattttttt ttgtagagac nangtctcgc tatgttgccc aggctagtct 300
cgaactcctg ggctgcagcg atccttctgc ctgggcctcc caaagtgctg ggattaccag 360
tgaacctcca taccagcccc aaatatgcat tcttgggaatt atctgcaatt gcccaanaat 420
gtacaagcaa ctctgagaa taaaccanaa aagataagaa actccatgaa naaaatgggc 480
aatgcncagg aaaggaaacc aaaaagntaa 510

<210> 7794

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7794

gtttaaaaaa atattttaat aagcatattc agaatggcag acaagggaat gggagaaggg 60
aattatttta cagtgcaaaa ttactatgca taaatttaac atctaatttg aaattttaaa 120

tgcctattta aatattactt caaatacatt ttaaagctca acaaacttgt gttgaactga 180
 attgcagatc ctgaactcta ttgaaaata catcatgaaa cagaaaatac ccattccaaa 240
 tgaaaatgat agtgctttgt tgggggtggg aatgangcgg ggagactaaa tcactattaa 300
 cagacttctt ttcccaatgc aatttgtcaa aagttccaaa gttctgaaat gtactaaatc 360
 ttaagcaaat taaattcatg atattactaa aactttttta atagtgaat gacttatcaa 420
 gttatagtgg ctgcttaaga acaaattntt gtgttgaaat acctgcntaa accacaaaat 480
 tccttnaaat ntctctttac aanaagctga ac 512

<210> 7795

<211> 537

<212> DNA

<213> Homo sapiens

<400> 7795

ctggtttaaa tagtatctat actgataaca atagcaacaa tcaataacaa agtattaagc 60
 ttgacaaca ctatgtatgt tattgtatta aatcctcctg tcacccgcct tgagctgggt 120
 gttctctctt ttgatagctg anaaagctga ggctgagggc gatgaaattc acatggccag 180
 tgggagccag gatggactca gggtgcccat gagaccatgc cgtcattcag gctacactgt 240
 tctgaactca cgtgaccaag atgtgacaga ggctggattc cacgtccctg gcacactcca 300
 aganggattc aaggttaaaa tacaacttga tacttttaaat ggagaaactc cccacagtat 360
 gtttggtacc atctgaattc aangtcacat tttccagtct tgccctgggt ttgaaatcta 420
 ttggtttatt tcaatacatc acccctgtgg aaaaaacttg tctcaccaaa tntacntttt 480
 cctggcccgt tttcctgggc nccncttcca ggtttaacttt ggaaaaccct gaaggnt 537

<210> 7796

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7796

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agtagaagat tcttttattt taaaaaaaat tacacgtggt tctacaataa tttttccttt 60
taaaaagctt caagatatac agggagatgc actagtccaa gaaatccagc ttgtccttta 120
acaaattata cagtttaact ttcttcacat attgccacaa tagttaattc acagtataat 180
cttatttgta tttggaaaag aanaaataaa tatacaataa ttgaaatagg ttcaagaatc 240
aagctcgatt tgtttccaag acttggaaga acttcttttg tactgttcca gttccagatc 300
cttctgaatt ctcatctcat cgacttcatt ttcagcatatc tgaggatctc tcgcagggtc 360
cttgatatct ttcagcgtgt taatactctt tgggtggaaag agcttttcat acactttttt 420
ccacaactcc ataggtgagt gggcatgaac tttccaatgt cattttcagg aacaggaaga 480
natectattt gaccgaaaga atccatcccg ctgtgataaa cancngtttt tccgatcccc 540
cntttgaatt gcttttgggtc atgccaatgn cacttggtg 579

```

<210> 7797

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7797

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cagatctgta agttttattt ctcaatgtnc gacagctaca taatgactca cattcntgat 60
attccatcac tgaggaaact gctaaagatg gtccgtgtgt gaaataattc cttanagaaa 120
cacggagctg gaaaaataat cactgattag accttaaaaa tagttcactg cataacatga 180
caaaaagcac aaaggctcat tcagagaaca tatttgttgt tctccaacac tgtaatagtt 240
ataatttcac catgacaaac accagacatt nagattaagc taacactggt gtttcttttg 300
ctccccccct tttaaaaaca aaatatataa ctgcatgtcn ctatagcaac atccaaaaca 360
gatcaatttg ttncaatcac tatttggtag agcaaacttt acccccnaaa gganaaatta 420
aattnaaaaa aaaaaacctt taaaaaattg aaaacttaat tttttttgt cctaggaata 480
ccttaccctt ccggtttaat ttatccattt ccanccttg ttttaaaatn ccccttgcc 540
tgccccattt tgnttcctt aaattntggg ggant 575

```

<210> 7798

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7798

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agatgctgca taatagttta ttaacaaagc tcaaagttta cagaaataac attaaatgca 60
acactttttg attattaaca catgtacaat ttactactgc aaaacaattg caactaaaag 120
tttaggaggt aaagaattag cacacttgga agtctgtata catttaatac aaatttgcaa 180
gatatcagaa tgatctctcc tgaaaattca actttccttg tgtatatata tgcaaagaga 240
tacctatatt ttaaaaaaga gagctacctg tatgtcatgc atcccatcca aaacatgtca 300
caatatttta tatatattac atagtattta caacaaagcc ccttccatag tatttacaat 360
aaagctcctt ccaaaatcac caagangctt ctttccagaa tagcaagtgc tttcaagtta 420
ctgtaccaag tattctcact aatacagtan tgtatctaaa tgggggaagg tggggggant 480
ncantgccta atattagtta ctgaatttcc anatta 516
    
```

<210> 7799

<211> 257

<212> DNA

<213> Homo sapiens

<400> 7799

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attttgcctt ttgtaacatt gttttatctg gttttccata tcaaaagtct gttaaactttg 60
cattaacact ataatctaca atagtagctt tataagcatt tgaaatagaa tgaaatagta 120
attcnagtct gatattactg ggttggtcca cacatagtta aataagatcg atccttccaa 180
aaatctaagg gtaggctagt tgtggtgatt catgcctgta atcccagcac tttgggaagn 240
ccaagnnggn tgantcc 257
    
```

<210> 7800

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7800

```

ctgaaagtgt ctgatttatt ttcaaaataa attatatctt gattcctttc aggttcatgt   60
ggcaccgggtc aggctgcctc aaatgctatc acgattcaag gtttgggggtg agtttccatg  120
atcagtgtcc tcgtccagca ttagagaatt gtgcctcctc catctagagg tctgcaganc  180
cacacagtct gcaggacaag cagggacact gcccangtct ccccgggcca cctactccan  240
ggctgggtctg aaaaaacctg aagggaagg gcttccgtcc ctctgggctg aaaatctaag  300
ggtgcagtgc tggtttgctt cctgggctcc aaccccgga ntaggtgang ctcgttaaga  360
atgcctcct gagcgtctct tctgaacttg cttgctgcc tcttcccacc accccatccc  420
gcttggcctg ggaacgggaa gantccattg tggccttgn cggtcccn caatgctaag  480
ncctcaactg gtgttcgttc tgtaatnaa acccttgcct gctgtctccc actctccgtg  540
ctccccaagg gcaaggctct tctgnccnc ttcttttccc atgcattcat gggccaaaac  600
n                                                                           601

```

<210> 7801

<211> 252

<212> DNA

<213> Homo sapiens

<400> 7801

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gacggagttt ggctctgtca ctccagctgg agtgcagtgg cgtgatcttg gctcactaca   60
agttccgact gcctggttca agcgattctc ctgcctcagc ctcccagga gctggaacta  120
caggcacgca ccaccagcc cagctaattt ttgtattttt agtaaanatg angtttcacc  180
atgttggcca ggatggtctc catctcctga actcatgac caccntccc nggcccccca  240
aantttggga at                                                                           252

```

<210> 7802

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7802

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ccttctcctc ttttttggtc aatagctggc aacaatgtga acaatgcatt aaagtacttt 60
ttaaacaat gcaatttact cggaaattct aatatctcca cttttcttg agaataatca 120
actttgaaat aagatccatc ataaatgtta gcctattaga gaaaagatgc tgtaaataat 180
cagttttacc tcaaaatcat gctcaatatt ttttttctct gaaagaaaat tgcccaattt 240
tgcttgactt gaaataatta aattaggaga aaaccaaggg tctattagta tatatcttat 300
cttttatgaa atgacttaat aaaaataatg tatacggtta aaacaacaac cgaaaatact 360
ctacatataa taagagaaca ctaggaagaa aaaaatacca cgtgtacttt attttagagt 420
aatgaacttt aaagctaaaa aagccataga atatcctnct atgttaaccc caaatgttgg 480
tcttgccta ngctctccac cancgaaata ctgcgataa aattttagtn cccntggggt 540
aacctttccc gttttt 556
```

<210> 7803

<211> 237

<212> DNA

<213> Homo sapiens

<400> 7803

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gnnnattttt taaaccatca ttacttttt ctttactttt ttttgcaaag atagttgtgc 60
tgccaagcaa cttgaggtta aggcatataa agggtttagac tacaanaaat gaaaacaana 120
caattgcgat acttctata ggagacgcac aaaaagcagt tggctggttt catattgcat 180
aatgatgctg tgttccttga tgaaataaac aatcttcnt gtgttnacat naggann 237
```

<210> 7804

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7804

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aatttnaata catttatatt tgtgtgattc ttaataaaac actttcaaaa cattctgtac   60
atttcaagcc actcagaanc gcattacatt tctacaaatg tgntttgttg ggatgaggtg  120
ccaagatgtc tctgtacaaa gatgtacaat atgtacaatc actgtaagtg caagctgtgc  180
aaagcagant ctagaacact aattcatgcc aaggcttaca aaaacatttc aacacataag  240
actaaagctt gaaacagcgt tgttggtttt tccctgggca aatgattatt ttataaacia  300
gtatatgtat atgtcataca gaaagaaaaa ttggactcct cagctcagtc agtaccatgc  360
agctgactgg atacattaca nggctgctct cctangcctc tttcttcaag gcgccatttt  420
gccacactca acagttgtct catcactgag tggctgccac tgctgccttt ggntgaacca  480
cagcaacnct aggaaactta anttncggga aataaaggca aattggtttc ccatgccgca  540
acttgntg                                     548
    
```

<210> 7805

<211> 335

<212> DNA

<213> Homo sapiens

<400> 7805

```

catttnttaa aattttatta ctgtttacca atggggagat gcagtttatt tacaccagca   60
gccatagggg aaaggggaat acanttaatc agctatctgt ataggatgga ctacttatgc  120
naaaataaaa atctccaaaa caaangacag tggtagctt cactaccctc ccccgatgat  180
cccagcatgc gataatgcca ngcantggtc cctgggcatg cgatggtggg aactaatgtn  240
tggaanaaaa agccacaaac cacagaaatt ttaaagaacc ccccccttc cccataacac  300
acacattcca cacacacnct ctcnattct ttata                                     335
    
```

<210> 7806

<211> 108

<212> DNA

<213> Homo sapiens

<400> 7806

cctggaactg catccattga acatttattt gtcaaaggcc tggctctgtgc caggcagcat 60
gtggaggcac tgaatggggg gtggaggggg ttgtncngng ggaatcaa 108

<210> 7807

<211> 312

<212> DNA

<213> Homo sapiens

<400> 7807

gggccttcca atattatgag gttattttga ggatccaggg aggtaacgga tgtgaaaaac 60
gtgtggtgaa ctgtaaataa tgactatcac atttagttct cccacaatcc agtgaggant 120
aatcacttac tcgaggtcac ccagcgtgga caactgctgg agctgggatt tgaaccanc 180
tagcagtgtc catgctacaa aaatggggcc agccttggca caggangttg attgctgcag 240
ccagtgtttc tanaattcca aatatgaagt ggtctcatgt tctccttggg angaagccct 300
tggtttcccc aa 312

<210> 7808

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7808

gatcaataaa tcaatttatt taaaagaata tgttacaatt aattacacta agtgacatta 60

ccaaacaatt ttagagtggg tagctctaga acaaggaatg aaagaaacaa tgtagccat 120
 tattgtgtct gtgtatttnc tcttcacatt tcttanatca caaataaaaa aatacaagat 180
 actgcagtga aaatacaatt agagtttctc tgaaataaat taaatgtgca tggcctggga 240
 aaaactgaan cccanctcac tggcttaaaa gggggtcacg atataaaatt aatgtccaag 300
 ttagcaggc ggccaagtgc cccacccccg taccactccc ctctttgatt ctattcctta 360
 ccacagccct gaccttccca cataccctan attattgctg angantgagc tgatgctgtc 420
 ctggcaacaa aaaagcctgn cgtgatntgc tcaggttttag gggaacagga attcaaaa 478

<210> 7809

<211> 269

<212> DNA

<213> Homo sapiens

<400> 7809

ccagtgtat tatatatttc aaacattact tgtttgcata ataaccaaact actgagacag 60
 caggcatcag antgccaatga agtacaacac aactcccact tccatgcttg aanagctttg 120
 tgagagctgt gcctgttgag gcaggggacg tgtactgtgg actccaggaa tgacacaatg 180
 ttagccggca gacacctcaa agttcctctg atcccnacaa actgggaaat ggggtgggtg 240
 antggaanga gctttctcaa natcacnca 269

<210> 7810

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7810

cacagtggac aggaaaattt tactactgaa tactggaaaa taaatcaagg atacctctta 60
 atatcttgat ctctttaagc tggcaanact ggaatacaag tttaaatgaa tagcagcaca 120
 aaatcacttg caactcttac attctggcat tgggtaccac ataagtaaag ttcatcattt 180

tgatgggtcaa aggagcctcg attctattcc tctttcaaag ctgaacccaa tggactcctg 240
 tgggaaatag tattgtctct cgttcgggtca tgcttaatgt aaacaactcc atagcacaaa 300
 aagatgcaat gggcacctaa acaaatccta gtgggtacag aacacacaca cacacacnca 360
 cacncacaca cacncacgca cacacacaac aagtttgttg gtggcatgaa aaanatgcc 420
 cncatgaaaa aaaaatgcta cacttgggtc aaaaatgaat ttaaccaac tgcttggtta 480
 tctacaattc cattctttga aaatttanca nctttttttg aaatttgttg caaaagcaag 540
 gtnatcttcc tnttaaatnt tc 562

<210> 7811

<211> 533

<212> DNA

<213> Homo sapiens

<400> 7811

aactattcaa aaacatgtat ttatttagaa caatagaaat acgtgttctc agactgtcct 60
 ctanagtttt tgagactatt agttcaagag tticaaagta tattacttgt aaaaacaata 120
 ctgattaaaa aaattttttt taacaaaaaa acagaaatct gatttgatgg taccttgaaa 180
 ataccctaaa taccaaattt tctccaacct aacattacag ctaatttaag aattcctcct 240
 tcattggtta aacatttttt cctcattaaa tgtgggtact gaaattggat agaaacacta 300
 tgaatgtgaa aataccacca attttctgca gtaaaaaaaaa aaacccaaa aaacaaaaaa 360
 acnaacaaaa aacctagaat gttctttgga atcactgaaa tatcacaac ttgggttttt 420
 tcttacagtc tgtgcacctn ctncaggtt ctctgtting cttgtattac tgaacggtgt 480
 gatcctaatt ttatanatcc agtcttgcac ncaatatact gctggacacc cgg 533

<210> 7812

<211> 495

<212> DNA

<213> Homo sapiens

<400> 7812

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aattntntaaa agttttgttt tgtttaatga aacacagtat aagaaactag aaaatattac 60
agagaactat gcatactgat gctaagttct gttttatttc atatacatgt ccattttata 120
tcacaaacca gtaaaaacat acaaattgat aaatgtataa acacattgca cataggtgta 180
tacatgtggt atgttgggtc ataatgtata ttgggtcata atgtaagctc ttccaggaaa 240
gtttcctggt ccctcatatc tccaacctc caaanataat gaagcattct ctcatctgct 300
aggactgaac catgttaatg cttctatcat tgctttaatt ctgtatttgt gcttcctaca 360
agaccataaa cttctaacac tgtactaggc atttttccta ctacttgata tgtacgatct 420
catttaattc tcacaactcc tgttttccgg ggtgggtttn gggttnaaat ttgccttggt 480
gaacanctgg aatnn 495

```

<210> 7813

<211> 510

<212> DNA

<213> Homo sapiens

<400> 7813

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catctcactt tttccagatt tttttttat tcagtacaga tgcaaagtag tagctcanag 60
gctctgggta atagcattcc tganattgat gacatccatt acctcactag tccaacttct 120
ccagactaac gcanactttt ctcttccctt ggcctttcct ctctcgcca ttgggccaat 180
tccttcgatt tctcatttcc cttgaagtta gggccattca cagtttcatg gtcaaagcca 240
gttccagggt caatagtctg tgatttatcc aggctctgag gtatgcaccg cttctgtttt 300
gctcgttcct ccaanagcta gtttggccan aaaggggatg ctttatacca tanaacacat 360
ccaccttcta gaactgctct aaaaggncag gccctcanat tccacatggt tgganttctg 420
gccaatctg ganccttctt cacactcggc tctcaaaact ctngggttca aaaaaaatt 480
aacatggtga naaaaaaana ttttctaaac 510

```

<210> 7814

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7814

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catatttgat tttttattac caatcaaaaa taaattccat atatcgttta gcaaatatca 60
ttgttttgtg acaaaagaca caagagtcac aacaacaaaa ctccccgana gtcaaactca 120
taacgccaaa ataaatcaca aaaatataca aattaaaata ttatgcaaaa taaatacggc 180
ggctgtcacc tgcctaccca tttggatgcc ctttgcaaag gtctccctta cgtggaaaac 240
acagtgggtg ggccagttcc agggatatggc tcatcccagg aaccagaggt tgaaatagga 300
agggaataat tgcactggga agaggaagtc atcanacaaa caatatttgg aaataatgat 360
gaccctctgt gagaagggat gatcaatggg ccacgggaaa aagangaagg ccaccantt 420
ggtggtaacc gtgtgccaaa agtcactgtg gaagtntttt cacctgcccc ttgcttcnc 480
ataccccccc caatgttctt ttgctctacc tggccatcca gggctgtcag gaatattact 540
cctgcccnc tcccaaaaag gaanttggga aaacaanctg cncn 585

```

<210> 7815

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7815

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gtttttttga attccagaac ttctttattg tacataaaaa tctgaatttc ttaatatgga 60
aaccaaaggt ctgcaaaatg tactctccta gtcaggatc attatttatt cctcttattt 120
ttggaatcta ttcttctttt attcaaggac caactcaaag gtcagctttt agttaactct 180
tatatcccca tacacatata ctaaaggcan anttaactgc tatatccaag ctacttcttg 240
gcatatcctt gtcacctaaa ataacagaan agggagactc tctgaaaaga aaaatgatgt 300
tttattcagg aagtaggcat tgcaatnaga aatacaagtg ccacagttaa actatgtgca 360
tatacaggga agtcaaggaa gacaacggtt tttaaagcaa aaatgattgt ttgaaaaaa 420
attatccttg gctacaagga tcataacaag gatgttgcca ntggacatt ggacagggaa 480

```

ttgctgggca aattttcncn taaaaatttt ttgttttttt ttcaggtngt gaaggccttg 540
ttcaaggttt ggtttgggtca anctttaatg aaancccc 578

<210> 7816

<211> 308

<212> DNA

<213> Homo sapiens

<400> 7816

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tttcagcaaa tgcttgttcc cctcagccca gccccaggaa ttaggactga ggctgggtca 180
gantctggan tggggaatgg ggtagtttg aaccacatga ctgagtttga ggggtgcccc 240
tcaccccanc tgaggtaggt gggtcagaat ctggccnggt gagangangc nccccactgc 300
ttggccct 308

<210> 7817

<211> 211

<212> DNA

<213> Homo sapiens

<400> 7817

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atgcatactc aactgttaag tgcctgattt gatttgcana ngatatagaa ccttatcaga 120
aaacaacctt ccaaggnaan aacaaatgca tcctatctta gcacagcttt tctccaattc 180
ttctttacct aagganatga atnnctgccca g 211

<210> 7818

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7818

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aaaaacagaa ctgtgcaatg agaatgcttt aatcatcacc cacacagacg agcggaagct   60
acagacagag aaccactacg gatgggtgcct ggaacanagg tgagaatggc ccaaaactct   120
gcctccggga aaggtgccaa gtttacagga cttatcgtgg tgcctcacc agaccctcc   180
tcctcctcct cctcncctc ctcctcctcc tccgtggccg ctggcggctc ctgcatctcc   240
tctggggaag cctgangccg gctcgggtaa cttctgctgc ctgagacagt cacacgtgct   300
tgggacctct cacctgaggt ctctgggtgc tgaactggan tggangtact aggcggtgga   360
aaaaaatgtg gtcacctgtt gtcattctct tcaaagtcct taaggcagta cacttcgtcc   420
aggtcaacat ccancgtccg gaaacccttg gtgaccacac caangccngg gggttcaggat   480
nccccaaggt gaggttgggc cacttgctgc cantggtgaa atttggcaa aacttcccac   540
cggttnccca at                                                    552

```

<210> 7819

<211> 352

<212> DNA

<213> Homo sapiens

<400> 7819

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agtcataatt catttttatt gctcttttaa aacaacagct tggctgagcc gcggatgcca   60
tgaacagttc agggcctcgg cgtcatttta tctcctcctt attcctttcc tttctagcat   120
aagagccctg aaagaggcgt tttgagccaa nagaaccgct tgtaggcgat cattttaagc   180
gtaaccaagc tcgcctttca cccagtctcc caaggcgttg aaagagacca gctccagtct   240
tggggcgctg acctacttgc ctananggcc aaggatctcc tactcggtgg aacggccccc   300
aaaatttctt gggggaaggg ttttggggaa anaactganc tacanaacct aa           352

```

<210> 7820

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7820

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aagcattttc caccatttac tcttgttatc aaaaatagtt caactcttct tgcaaaacaa 60
aaacaaaata gtacatactg gacacatcac atttttcttc ctatggcttt agcccacccc 120
caccaccacca aaagagacca aaaaaaaaaa agaaaaaaaaa gcccaacaac aacaacaaaa 180
acaactctac ctgaccacat tcacagaaaa tgacaccagg atacactaca aaacagaagg 240
aggtgtcatc tgctctgtgt ccaaagggtt cttctccatg tcttgacta ggcgagtaac 300
catcattgaa catgctgtgt gccaaatcaa aacataactt cagcatatgt cagatcttac 360
tagagatggt gaacgtanta naaattggaa attttccagc agtatttttc tttaaataag 420
cactgtcaaa gctgcagctc ttcttttaaa tcacaggtta tttcattaca cctaagtcag 480
tccttgtttt atttgggctg gtgctctttc cagccactga atanaattcc cctcnacaaa 540
atgtttggga aacncttgct ttccccctan aaaattaccg g 581
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<210> 7821

<211> 400

<212> DNA

<213> Homo sapiens

<400> 7821

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ctgaggattt cctgtattta ttaagttaca agttggtagg cacagcttga gcaacatana 60
aaagtaatct tcttgagtta tacaatcatt taaattccaa agcactcaca aaattgagca 120
aacaagcca ctatttgcatt atttgggaaa ggaacatat tgctaattga agccacagga 180
ctggtcaaaa ataatgtttt tgtattaagt antaaaataa atggagaatt ctaccccaaa 240
gcctccacct cagtgaanac ctgcgggtta ttgcagctgc aagggaagct acagcacagt 300
cgtctcanaa taaacagcag cctggaaagc anatgttttc ncaggtatcn aaggccctcc 360
naccacaaat agcctctgct ctccagnaac agttgaanaa 400
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<210> 7822

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7822

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ganatggagt ttcgctgttg ttgccaggc tggagtgcaa tggtgcaatc tcagctcatc   60
gcaacctctg cctcccaggt tcaagcgatt ctctacctc agcctcccga gtagctggga  120
ttacaggcat gtgccaccac atccagctaa ctttgtatct tgagtaaana tgggggtttct  180
ccatgttggc caggctgggc tcgaactcca gaactcanat gatcctcccc cttggcctcc  240
caaagtgtg ggattgcagg tgtcagccac catgcccggc ctctctgtc acttttatag  300
ccatcctctg ctgagaggaa agagctgaca cctctctgcc cagtctcgag gccccagtcc  360
acactgtcta caactatcta cagccatctt cataccta at gccaaaagaa gctccccaca  420
ttaattaacc ctggagtgat cncctctaat tgggcgttcc ccttnaaaac aagaaacccn  480
nnnnnnnnnn aaattatttc agggccatcc tcccctccca ccaattccca caatgnagga  540
aactctcccn                                     550

```

<210> 7823

<211> 519

<212> DNA

<213> Homo sapiens

<400> 7823

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agagtagact ttataaaact ccagaggatt ttcccaatta acactaaaac ctccaaaaac   60
ctgtcagana tacaattatt ctctatatta gcttcttata aaaatataaa aagctgagca  120
aaaaaaccac aaccaatta taaagtcaat atacaaaatg tattctatct ttaaaatggc  180
acagaatgag aaaaaattct tcatgctgat aagtgcctca ttcccaaaca gggacttcaa  240
attgatcaga ttctcttgca ggcaaaagct ttgcagcagt ctgcatttac tggaatattg  300

```

ctctctgaac acggccacat tcaggtttgt taaatatatc ctcttccgct tctggagtta 360
 gttggatggt atctccgact ggggacaggg gtttcttaca aggaagaagc ttttcagaat 420
 cttttttaaa tccaaagttt ttccaganc t cattganttt gatctgttac ccngnttgt 480
 tctccgcatt atgangcttt ctcctcnnga atgcttggc 519

<210> 7824

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7824

cccttaaana aagcacttta ttttccattt aaacaacttg gtcacaggac gttattttac 60
 ataaatggaa gtaatttgta aaatttccat gtnaaaggcc ttgtgtctga gtctgagggtg 120
 ataagaggat atgaatacaa gtatataaaa acagtgc aaa atgtgcagcc cacagcctcc 180
 ggagttggct tcanaaatcc cccttaatgt tgctagacca gttacattaa atattaaatg 240
 taacaccagg taaatattcc tgggtttcct ttagtctaac atccaacca natatgcaat 300
 aaaatgaaaa actcaaaatc cctaacaact caaaccatcc aatcaccag accattagga 360
 tcacaatgag ttgagactgc aggtctata ctgtgacatc tcgtcagtgg ctccatctta 420
 agaaatacag aatttttagtt gcatcagtaa ctaaaataaa ctaactctgc ttttaaagct 480
 ttggctttta aatgtttaat tcnanaaatt tcccttccag gggccnccca aaaggggggg 540
 ccctaaaaaa ttccaacccc ccccn 565

<210> 7825

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7825

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acacagcanc ctggcccagg gctaagggtga ggcgtgaacc cgcccanggc taagggtgagg 120
 cgtgaacctg gccagggct aaagtgaggc atgctttcat taatcccgtc agganctctt 180
 ggctcctctg tgactgcaaa tcatttgac ccacctgcga ntctctcctt ctcaggatgc 240
 accctcatga tacatggagc aacacacaata agccctgatc tcatggggct gcttggaac 300
 gggctgaggt atgcacccc nagtcacaag ctgcgggaa ntgcaggcgc ccatgaccca 360
 gtgccagcat gctctaattg tgtggggatt ttgcataaca taagggtgaaa ctgtgaacaa 420
 aaaaagggcc tgttggttc tctgcatctt taaggactgg gcctggcccc tgactgcttc 480
 caggaaaaag cacattccct ggggaccana aaaatctctt aaaaacctcc cnccccagg 540
 ttaaacactt tccggtcttt ntccatggt c 571

<210> 7826

<211> 594

<212> DNA

<213> Homo sapiens

<400> 7826

aaataatatta ttatTTTTca gctgagtctg ggtctcactc cgtcgcccag gctggaatgc 60
 agtggcatga tcacagctca ctgcggcctc caactcctgg gctcaagtga ttctcctgcc 120
 ccagcctccc gagtagctgg gactacaggc ttgcgccacc atgcccggct tatagggcac 180
 tttagatgga aacaaatgac tggatcttta actcctacct ttctctcctc tcttctgtga 240
 atgttggttac tgaaggcagg aaggagact ccttggttaa agagcaganc aagagcctca 300
 aagtggctctt tgtgagccac cctggactac tggttcggtta nanggttgag tcaagcaata 360
 tttgaggacg ggatataaac agtatttctt aaagttgtca ccaatttttc ccccgatgag 420
 gccattccag acccaaatta gtcataacag anccaggaca ataatcacat ctcttgattc 480
 tgaacctgaa tgcttcccc aggaatgggt tctcccctg gtctgaaggt ccattgttgg 540
 gggaaaattt cccctgggaa tccccccan ggcctgggga acaaaccncc caaa 594

<210> 7827

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7827

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gtaagtttgt ctggttttatt tgcaggctgt agagatgata tcccagtcca cgcacactcc 60
catgcacacg cacacacata cttcatccac ctgaatttgc ccgacaaacc ctcctctgag 120
tcatagggga caaagccata ctgggcagtc ctcacgttac tggttacatt agatttggtc 180
tttcagaaag aagatggttg aagtcccaag aagctgagcc cttagccaga gaagtnagag 240
tcctagaacc aagagccaca acctgaaata gatgttnact gccccgccc tccttccagg 300
gacaactctt gagaccctct cctcccagga gttgagtctc aagaaatgaa gggactgatg 360
gggtttccca ggacacacga gccccaccc ccattcaatg agaaaacctc tcttctgcca 420
tttccagaan ctgggggcac acctgcttgc tctcctccct taaggaaaat tcctgcatct 480
tgtttaaatg tggaacttat gaaataaccc gantggctctg cctccncnct gantnaggaa 540
aagggacctn aatttnatgg ttttc 565

```

<210> 7828

<211> 600

<212> DNA

<213> Homo sapiens

<400> 7828

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actgaagagg acaagatggg aaggacattt ttattttccc taatcttcag gcaacctcac 60
caagctggag gtcacatgta gctgagtgtg aaaccaagaa aaatacgaag cttcaaaagt 120
actgtgcgtt gtattttctt attctctggc aggctgggag tccaaggtca gtctangcag 180
gagggctgct tggcctaagc agtcacacaa ttttcaccgt cttgagcata tctgacaana 240
catacntgtc atcccaaccc ctcccaggct tccccagggt ccgctccaaa gcctgggctg 300
tttctaggan ctctggtgtg gcaagttttt gctcagggtg cagctgacan aacaggatct 360
cattcacttc accctcaatt cgccagacat ataggagggg gaacactgcc ttgagcccag 420
ccagcactga ntcttttagc cccaagtctc ggcacacaag gttgaaaaat aaaaacacct 480

```

tcaggantca agatgctttt aaccttctgt taaaaaaaaat gctcccaaaa tgctnggggg 540
cgkanaactc attccccaaa attgggttcc taatgttcac atcaacttta tnanatcctn 600

<210> 7829

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7829

aaaacaagaa agactaaaat gtggaagaa atcagtcttg tgcattttgt acatttgtgt 60
cctccactct gtcttcattt actgctccag gaagctgatg ccacagctgg ccacagtiga 120
acaaanacat cagaaggcca gttagtctct accacanaag cccccaagtg aaccgaattc 180
tgaagggcag gtctcagtgt cccttaactt tgttctcccc agnaaaaatc cattttgctg 240
ccaaatgtga ccagcaaact tgggcaggta catctagcac aatcacantc ctgtcacact 300
gccaacgtgg cccaaggcat ggcgtgcagg gcantctctc tggagggcct ctgctatgcc 360
tgctcaccag caccacctcc accaacagcg gaacccttgc tggatgcctg ggcattctgaa 420
gaacgggaag cctgcttcgg caggcggatg gggacatana ttttgaanc acantgctcc 480
ttgaagtacc tcctcccttt ctccctacnc ctcccnnggt gatccaaact cnttaacac 540
ctaggtggtt canggcccat tccaaacacc gttcaagcan 580

<210> 7830

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7830

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ctccttagcc acacattant tttttganac cgtgtctcgc tctgtanccc aggctggant 120
gcagtggcat catcttgccc tactgcaatc tccatctcct gggttcaagc nattctcctg 180

tctcagcctc ccgantaacc gggactacag gcatgcacca ccacgcctgg ctaattttta 240
 tatttttagt tnaaatgggg ttctatttca ccatnttggc caggctgggc tcaaacttct 300
 gacctcaggt gatccactca ccttggcctc ccaaaatgct gggattacag gtgtgagcca 360
 ctgcaccggg ccccttatcc acaaatttgg gattgaacta caggcnnaan gattgaaaat 420
 ntntccttcc nccttccctt atactcatgc cactctctgc ccaactttct cttggnccca 480
 taattc 486

<210> 7831

<211> 356

<212> DNA

<213> Homo sapiens

<400> 7831

acaatataac caagggagtt tatttcagga atgcaaagct aacgcaatat accaaaattg 60
 agcaccacag taacagactg aagaagaaaa atcgcnataa tnttagttgt ggcaaaaaaa 120
 tcatttgaca aaattcaaca gccattcatc gtaataactc tcagaaaagc aggaacagag 180
 aggaatatch tcaatttgat aatggacatg tnttaaaaca ctacagctaa catatttaat 240
 gatgtgagac tgaatgcttt ctccaaagc tgggaacaag acaaggatgt ctgctctcac 300
 cactcttggt cagcatagta ctagaagtnc tagccagtgt nttatgcccc cnnnnn 356

<210> 7832

<211> 511

<212> DNA

<213> Homo sapiens

<400> 7832

cctattttgt acccttgnaa atttattagt ttattctgag gatacaaata acatttatat 60
 atgcacacat gagccatctt aatatttcca tttagttcan aatttcaaaa atatcaatcg 120
 atccttgaac tttcaagtat agaaatgagt ttagggtaaa atagtaacct ttgaaataat 180

tacagtactg tattagattt gtcttttctt ttanttgctt aacttcatga actcatttgt 240
 ttttttcttt tnaattttta ttaatctact ttttccaatc cccaatgtga ttaaattcag 300
 aagaacagta tctttcaagt aaatgatgca aaacttcctt tcacatcatc tcacgtcctt 360
 tccccctttg tattagtaga taattatact atctacagcc agaacgatct tcctanacgt 420
 gatcatgcta tgtgctatga aaaaaacctn caatggggga actccnctac cgaaatgatg 480
 tggttntnct gggcagtcgc tcccangtgn c 511

<210> 7833

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7833

aaagggtttt aaatagaaac tttattttaa taaatgaact cttctcaacc ccaaaaccca 60
 gcttctgatc ttgactaagt tcataattac tcagggaata acactgctgg ttccttataa 120
 gccactgtgc tgtacgaaat caattcatga aaaggaaacg ccctatttcc aagcatacct 180
 gtactagaat atattaagta tattcactta acatattaat ttaaattgta atgttagtct 240
 aaatgttaaa ttaatttaat atgttaaact taatacgttt atttaatttt tacttaatac 300
 cattactgga acatattaag cattttttcg gcttaaaaaa aacaaaaaaa caaaaaaaa 360
 ccctgaattt acagaactaa aattatgaga ggagatcgca ttacaaaatc tncctctatg 420
 gggttcttcta gctcaaaaana ttttcctact gattttaact actgaatttg gngttattat 480
 ttanaaaaaa acccggaag gtgccactgt tgaaancnnt gtttttagga attcttacct 540
 catgaatttc ttttcggga aaaaanactn 570

<210> 7834

<211> 416

<212> DNA

<213> Homo sapiens

<400> 7834

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gcagacaaaa agtggtttat ttagcaccca ctatgtacca ggcacttggg aggtattttc 60
tcacactttc gctttccatc ctcacaatat cccttatgag gtagggacta ccctcatttt 120
tacaggtgag ggaactgagg cttagatggt gacagaccca tccaaggtga cccagctggt 180
aatggtagac ttcatcctgc tacacagtat ttaaggggcc taaaccataa acaattttta 240
aaaatttggg aaagtcacac ataaaggaga tgtttcaata ctttctctct ccaggtatga 300
acagtattga gcaagaccca cagggcagca ataatcattt atcctgatga aaggttctc 360
tgtgaaaggt aagggggttg ggggagacct aaagccttct gcagaccan nnnnnn 416
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<210> 7835

<211> 366

<212> DNA

<213> Homo sapiens

<400> 7835

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gatgttgaga naacatttat tccactcagt cagctcccgc aggagtcagc aacctgtaga 60
aatatccang ctggacgacc acttccgtgc actcctgcan aaccggggtg ggggtggggg 120
tccctgatgc tcccactgcc ccaaggaggt aagancctga ggcctccgac atcnactttt 180
gaccanggg anccanccca catcccaaaa aaaggcacc ttgagttaac tcacataccc 240
tctccccacg tgcactgccc attaccggcc accgacaatc tccancgctt gangcaccat 300
tcatccgaca agtgtttctt gaaagttang agcccnntcc tgtgctanac cctgggtang 360
actcaa 366
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<210> 7836

<211> 305

<212> DNA

<213> Homo sapiens

<400> 7836

catgaanagg atgggacctg tttggcccat gaattcaatt gactcattgg ccccatcaca 60
 aganatcagt gactcaatgc tcagcaccca actggcaatg tgcccagnac cccctgcact 120
 tcccaagcag tgagcgcaca cccaatgggt nagcccatna acccactttt tnacactncc 180
 ttgggcaaaa ctctgtccc cagcactgaa catngcctaa gcccctatnc agctggcaag 240
 ggatccaatt gccctgcctg nctctanctc ccancattgc tactgtgccc gccannggta 300
 ctgaa 305

<210> 7837

<211> 554

<212> DNA

<213> Homo sapiens

<400> 7837

catcttatga catattagtt tattacatgc ataaaactat aaatgataaa aatgaanaat 60
 gtaatgaaca gtttatgttt ttttaaaaca aagtcagatt ttaaaagttg tacacagaga 120
 gcaaaaatca ctttacgtac tcatgattgg ctttaatat tctttacact atacatactg 180
 aaaatgttta catttactaa taaggaatgc caagcgtatc catcaccatt tgaatagctt 240
 gcaggggatt tgtgatttct tccatgttat ctcttctcaa aaccaatct ggcttaagtc 300
 ttgaaactat tctggtcctt acaggtgttt ctgggataaa aggaatgctt atagaanaat 360
 tctcttttgc ttgtaaagta tctttcagta ttcattttat gtttatgaac tgtaagtttg 420
 tanaaactgt aaatacggcc acaactttgg gactactttn tacatcaaaa ggncnatttg 480
 ttgtctccct taaaaaaccc ccaacacnaa ttttggttna aatcncccc cctttttggc 540
 actttttanc agct 554

<210> 7838

<211> 448

<212> DNA

<213> Homo sapiens

<400> 7838

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canaacactg ttaatatcca ggcaccattt gttcctgcaa ataaataagt ctctaaggta 60
actgcatctg aactagtgtt aaacacaaca gtgccttttt ttttttttaa tccccccaca 120
aagcttttcc aactatgtac tatgcctcct ttcttattgc tatggtaatg tggctgtgga 180
aataaaacta ctgtacatcc aaaaaaatan agcaccttta acattaaagt atatgtctga 240
ttatttgtnc tcatgtttat ttacaatac taaagcccaa actatggtaa attgctctac 300
atctctacca ggtcacctga tatacaggaa ataaaactca actatcttcc ctcttgaggt 360
aagcccaagc cananactg ttttagcana gtctaaaana aaaaggtctc aantgtcgcc 420
agggtttaca ttcatcttcn caccanga 448

```

<210> 7839

<211> 398

<212> DNA

<213> Homo sapiens

<400> 7839

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gcggcttaaa catgtggcaa atgttgcttt aataaagtca cggaaggaca gagccctggt 60
ctggcccagg ccccttggtt ggcagccgga gaggtcmeta tcggaggctg tgcccatggc 120
agctgatcca ttcttgggga tcagcttcac cctcctgaaa ctgacctcag ctgcagaaac 180
agctaaaggg ttctctttag actcaaaatc tccccctctc cttctctgtc tctgaggcta 240
ggtacctttg gtttcaaaaa tgcattaggt ggggaggatg aaggcagcac cttcggtctg 300
agaactgcag gtctgcgagt gtctccattt ggggtgactg gtgaggacnt gtgttgantg 360
gccacttctg gtcttgccgg aacacttgca tagnnnnn 398

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<210> 7840

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7840

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aaccttggtc anatttcttt attgaaaaat taaagtcata agctctgtat ataaatacaa 60
tgacactgct ggtcacctgc aaggcctctg ggataggctg ggggtgcaaa aggaaactgg 120
ggccttgggg tccccagggg catggggang gaaataaata ataaacacca tgggggataa 180
ggaaccagga agaattggggg tntnaatggg gaagtgtctc atgcttattt gtggcactaa 240
aggtcttgca anatgcccc tgactggggg ccgtgtccat gaattctcna atgacctcac 300
tttgacaaa ggctcangca tctggggatg ggctgggtcc tancgtgaag ggggacagca 360
ntgccccaa cccaacctgg aaaaaccanc actctgccct tccttttctt ttcttctgt 420
cttgcaacce acttgctctg ggcccctact gttttnccaa tacaacacca ttcctgaact 480
gaacctcttt ttncctnttt ctgctcncac ccccncccat tcttgttcca ttngg 535
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<210> 7841

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7841

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aactattctg gtcaacaaaa gtaaagacaa gtggataatt attttttagtg gagcttttaa 120
aacctgtgag aagctcacat tgactttttg gcctccagtc cacaaaataa tacttcattt 180
gataagctaa agtaaaganc aattttatgg attaactcta tcaaagtga gcacatgaaa 240
aatgggccta aagtcacaat atattaatca ggatataaaa aattaaattt tcacanaggt 300
tttcagggat gtttgtttgt taacaatgac ctatatgtaa taatgttatt tgtaataaaa 360
ttcacacaac acaaagcagt aattaactaa tgaattttca tttttcttc cccaatatta 420
aaaagggata attatactat cattataatt tgataatgtc tatactgtct aattagggca 480
cataatatcc tacaactac tactataaaa tgtgggaaat ccnanaacta taattaatac 540
tgtaattaaa atccccccc 559
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<210> 7842

<211> 537

<212> DNA

<213> Homo sapiens

<400> 7842

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gtaggcattt actgataaaa cttccctgtt gttaggggga tataaaggac acaaaaanaaa   60
cttcaactgc ctcacaatgt gaccaanaat tgatcatagg taactcttaa agatacccac   120
tctgtccaca aaaatggctt atcagcaact gtgttcctgc tatgtgactc taactccaca   180
gccacaactg gttggagcag gagtgaatat ctgattcaag ttgaatcana cctattatct   240
ctctcaagca ttgacctgan acaggattgg gagctgggag tgagtcattc tcaacagtgc   300
tattctggag ggtgtgtcca catactgcag ctgccacatg cccttgtaaa actggattgt   360
tcaacttcta natttcatga nctccactat ccttccaaaa atgctcactt tttcttaaac   420
attcttgaac ngatttctgt tntttttaac aatanaaatg ttattaacag aacaacaaat   480
tttgtttgaa aaaaaaatct ccctttctcc tcnncggttt ccattccgaa aanaaaa     537

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<210> 7843

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7843

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aggagtgttt ttgaaatatt gtttttcagt ttattgtatc accaccttgg aactagttga   60
cttcttacat atacacaaag ataggacctg cagcaacaac tcttatgaca tttttttcat   120
atcagccaca caatttacat aaatatgcaa aatgatccta gggtaactg gaataaaaaa   180
tattttgaaa tcttattgcc acatgtaact accaggttat ttttttaagg agatgtgtag   240
gttgtaagcc tataagaaag gtacacgcag aatgcataca cagatacaga aaaacaagta   300
caattacaat agagacataa tacatacaat caacaagagc tctgcctgaa gcttctagca   360
acttatacat tttgggtaca cagtacattc agatatcact acttcacagg ttgaaaaaag   420
ctgtcttgan aaacactaat gcaaaaagctt atgaagattt aatgaagaat ttaagttatg   480

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acncctttgt tnattaactg gcaggtgata aggnngcttg aaaaaacctg cnnccctgaa 540
tgaaatcccc caaataattt cccagga 567

<210> 7844

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7844

aactaaggaa agcttttatt taaattgtgc aatcaatcag tatttaaaca gcagtttcat 60
aaacattttg gcatttaaac ttttattcat ttttggcatg acctataggg tagtatataa 120
actaccant ggggtggggg caantactaa gcaatattta ctatgatact agaaaaaaaa 180
aaacaaatct acattattaa acaaatatnt tttaanaaaa cattaaaaan atacattcna 240
aatcaaggca aacattttgct ttcttcgtgc aatggcattc acanaactga tcccctgagt 300
caagtntaaa attaatatag ctgagctcta cantccatta agcaagtcta caaatgctgc 360
ccttacaaaa aaatggtata cggagtgaag ggatncacaa caccataat acnaaataat 420
ttaactggct ccccncttc atttaattca catctttgaa naatatttaa anaaaaaatt 480
ctttcccccg acccaaattt tgtcntacn 509

<210> 7845

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7845

aattagaaac aactatttta tticagaaaag tataaacagt tagcaattag aatcttctta 60
tatacagaca taacttgcag aagggttaagt ctgaggacgc tgttctgggt aatttttaca 120
gtccttttta gctctaagat ccatgacact gcatttttat ggccaaggg caatcaatta 180
tgcacctggt tgtctcaata ggcagtaaaa cctaataata ataatgaca aatcatctgc 240

cataaaaaaa tacgaaaaac ttttgaaatg ttaatttcaa ctccaatgaa acaaatacct 300
aattaaaaca attatittatt ccctgctaga atataaaggg aacaacaagc ttgagctgca 360
aggctcaagc tttgagagca cagaaagatt tttaaactaa taatgcattt taagtccaag 420
aaaatggagc cagcccataa tctcatgttg gaatnccctc aggcaaactg gaaaacncat 480
cctgaatatc tctgcaatgc gaatctccgg ttatttggnt ttttaaaaaa aaaccctc 540
ctccgtggtt aatttangaa ttcctttaag ggaaaatttt aaaaa 585

<210> 7846

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7846

aaaaaggact tatccaaata atctggataa taaatcgttt gcgtttccta anaaactggg 60
tttttctttt cccttgtggt tttggtgttt ttcttcttct ttgancetta ctaneggtct 120
gaagctttct ttctttcctt tgcctttttg cttttggaca gganaaagca gtttgtctga 180
attgtacttg actcttcnaa nangaaaagg gcgtggaaac anaagggggc ttagggagaa 240
aggacaaatc nataacggag gaanaaaacg anaacggaac taaaacccat ggaacccaaa 300
aatnccggg ctganggttg gggggtggaa ggaaggcctc ctgcctgcc gcccccaacc 360
aactncctcc agaagcttca gcccctctt ggttcctgca cananatctc aggccaanaa 420
aaaaaaaaacg ggggtggaaa aggaactctg ggccctctaa caacaaaata cntggatttc 480
naaaggttgt ccttggcttg ggggttggga aaaagaagaa gaaaagcnc ntggttttaa 540
ctggaagaac naaggcaact tccctccgga ng 572

<210> 7847

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7847

gtagaggcag ttccttttat aaaaagcagg aagccttgtg tanactccaa tgtataaaaa 60
 atagataagc atatacttgt tgctgataga agtagtagca cctaattgtc ctgtgaanaa 120
 tgtactgaac aagtttaatt actacaagtt gattttttat tgagtgcaaa gttaaaaata 180
 acgtattctg gagctatatg ttacaaaaaa aaacatgtac atggaaatca aacttctatg 240
 ccagaatgtg gatganaagg aagcaaggcc ttccctgacc acccactccc canaattcag 300
 tgccctgcct ggtagccttt ttccataggc cctggcacta tctgagatat catctgtcta 360
 ctgctctag aatggaaatt cttgagggca gggtattttt gcctgccatg ttgatatccg 420
 cattcctcta tctncaacat gtctancaca cacaggtgcn cagtacatgc ncttaaggaa 480
 caataatnn antttgaatc cctaacctcc tttggctggt tttgcaaaaa aaactntttt 540
 actttaaat acaagttttn gaattccaan cctttt 576

<210> 7848

<211> 486

<212> DNA

<213> Homo sapiens

<400> 7848

ggatttctga ttcagtttaa tggtaaggag ttgtgtnaaa ccgtaccaag tcctgcttct 60
 tcctcaaaat gagctgggct gcatttttgt gactggaagc atttctcata atggtgaatt 120
 aagcactata aaaaaataaa gtcaatccca tctctatgag tngcataaga gctgcttcca 180
 anaaccagg gatgccca tcccataacc cacccanaca cggccaattc ctcatanaca 240
 gctacataaa accctttcgt caacttggtt tgggggggtga nananangca gtgcttaggg 300
 aaaatgtngg atggattttt tttattcctg ccactaccaaa aaactataaa tctacacaca 360
 cactcacacg cacatacatg tccattttta agaaagcttt tcctccctgt gactacagga 420
 acccagaatc ccccccccc ngggtgaaaa aaaangccta nttacnggcc cnattttttn 480
 tttcac 486

<210> 7849

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7849

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ggaaaggtat aaaacgtgat agatggaaca gtagacatac aacttgaata acaagtcaca   60
gtgcatcgcg ccatgaaaac acccctcccg cccaccacc ccaccgtacc ccaccactc   120
tggtttctga aaggangctg gtggtcacca gggccctaaa naggcacctg gagtcctcaa   180
gattgtggag tccacggaca tagcacactg tgccactagc cacacagaca gctgggctta   240
gtttcccaa acattgccgt gtgaaggaat cagactgctg aatatggcag caatggctgg   300
agccgtatta caggtgacag gttcacgcgg aggatccgt gagcccgctg ccgcacctca   360
tcatccgagg accgcctatc tacctttatg gcacggaact tcancagctt tgctgttcca   420
ggccctacca tgccttanga aatcggggcc caaccctgtt ctctccttg aagaaaatnt   480
ttgctccca ccttttctc tctgccccaa aatctcaggg nggtttcntg gcctncctnt   540
tnttttgcc ttacaaattc ctttgccgn cc                                     572

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<210> 7850

<211> 502

<212> DNA

<213> Homo sapiens

<400> 7850

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aaaaggtttc aagtccaata gtcactctct ccaaatacaa aaagcagtta caattcaact   60
gaacacagaa gcttgtgtgc aaagttatgg ggaactgggg catcntataa aaagttgggt   120
taaanatgat tctgtggttt gggtttgttg tgttttgttt tgtggctctt cctcagtcac   180
ctgaactcag gaaanaaatg cttatcttga tgaaatatca acagcccacc cacagtaaaa   240
agacaaattc taaaaattaa aaaaaagcgc ataattacca aaaaaaagtc actgcttcct   300
ccccctcccc attttgcttt ttaaactttt ttttttttaa gttttgattt tttttttaat   360
cctgaaaagt aaacagtaaa acagctcctg gggaaaattt acaaccaact gcatnaaggt   420

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ctgggaaact naagggctgg aacanggttn ggaaaaatta acaggaagg atccccccnc 480
catccctgtt accnccctnt tt 502

<210> 7851

<211> 316

<212> DNA

<213> Homo sapiens

<400> 7851

gggtnatgct gaatcacatt tattacaaa ctttcctggc cccatgctca caggcactgg 60
tactgattc aggcatttgc cagggntgtc tgcttggcn actgctgcag gaaancaggc 120
tgaggcccca ntgcccantc tgaacctta aaccggccct cagganggt canccccata 180
ccactagggg ggctcctgca aacctgntcc cttggcctga ggcagggtt tcacctcctt 240
ttgcangaac cncgtcaagg ctgtngatna aactttctgg tcacaaancc ccttctcctg 300
gggtgctgt nggant 316

<210> 7852

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7852

catctaata ttttattaat atcatataac tctgataatt gtcaggctct catctttatc 60
ctanatcaat ttgaaaagca tcaacttttt acccgaataa aaatttccaa ttcagttttt 120
cttctttttt caattttctc cgcctcaatt tggcaagtat gacaaatgta cagatggttg 180
acagctggtc ctccaccata cctgctatat aggttatccc aaatgttctg aggcagcatc 240
aaaaccaggc cttcaatata accagctttt cttggaggaa cacctccatg aatacaaaga 300
aagtcattat ttgaaatagg gccagggtcg gcaaaggctt taaatttatt aagccactgt 360
cgagaaatat aaaactgaag gangcttggt tccattatgt tcaataaatt tgatatcctt 420

ctcctctctt tttgtgcctc ttcgctgctc ttcctataa aaaaaaaact tagcttcttg 480
 cntttgttca ataaaatccg aaactttnat taaactctga tctccaantc ctaccaaaaa 540
 tantttaaat n 551

<210> 7853

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7853

accacagtct aaagtccttg tattctcttc cacataccag ggctgataat ttatcagttg 60
 ccattgatca aagttcacia ggcaaatctt cataaacttc taaagctgcc tacagtttcc 120
 cgtaaacaaa tctctaaatt tacaaaagca atgcttgctg attgtaaaaa acacacagtg 180
 ccaaagcata caaaggaana anacccgctt gcaatttgct acctacatcc cactcttggg 240
 gccacaact attggaagtg tggtagtgga ttgacttaca tccttctaga tcttatctac 300
 atatttgcaa agaaaaata tacatatata aaataaaata tgtgtgggtt atatccttac 360
 aaactgagat cataggcagt tccgcaactt gccttttctc tgtaacaata aatgatggat 420
 gctttgcang gttngtgcta canatnctat ttatccttta aaaagntgca taagaacct 480
 gtggcccatg aaataatgca tgaanaccta ttgaac 516

<210> 7854

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7854

gcaaaaaaaaa aaacaaaaat aagtgcattt tatttaacaa acggaacaaa catcaganan 60
 catccccctgc aaagccccc ccccaaaacc tgctgatgga agcggggctg caggacgctc 120
 tgccacaacg gcagcatctc caactgcaca aanaccctt gctgccaggg ccgggcaccg 180

gcctanctcc tcgcctgcct gcctgaggca gccgtggaat cagggcaggg gtggcacagg 240
 tnnaaaagac agatggaaac aatgcccatg aatataccca aagtgtccca ggaggataaa 300
 agccgtcatg aggaccanaa gccaaccag tctttttttg gcctcctgga naatttggtt 360
 ttgagacctg anactccacc tgaaatggct ccctgaagan cccacggan caagaagggt 420
 nttctgaaga caccctgaa gaaaacacan tgcctgcaaa agganagccc ccaccaccct 480
 cccgcaaggg tctggacact aaccccatcc tgaaaagggtc aaaaaaaaaat gaatctccaa 540
 aa 542

<210> 7855

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7855

ggtcatttcc tttttatctg tcaggcagcc agctctgact tactctctgt ttctgtcatc 60
 tctccccac ataccaactt cttcaccatg atgattatac caataatata gttccttata 120
 tgaggggctc tggaataatta nacagtgaag catgttgcag attacatgtt aaacagggtc 180
 aattcacaat gaatgacaac ttgagacaat atgagacagt tttcagacaa cagttttgtg 240
 gcaggtaggg gactcctttc tctgcttact cttcttggct gaggttgtgt tgcactggct 300
 gaggttgctg aaacagtggc ccatggatgg agatgtataa tcagaagcaa ggagacacag 360
 ttctccgctg gagtcttcta aagaaatcaa gcctgcccac acttttgatt ttggncttct 420
 ggtctccana acttaacca aaantccaan tccaaaatcc atcccaagan aangaaaaat 480
 ccctcctgcc tgttaanccg ttgttcc 507

<210> 7856

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7856

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aatgctttta ttctacataa attactacca taggctaatz tttaaaaagc aaataaaactg 60
gacanatgca ggacaaaaatc tggtcaccca actataaaaag gtgatgtttt taaaaaatta 120
caataaatgc agaagtgatg catgcagtaa ccttaattcc cactgttcca gaaaagaaaa 180
aacagaaaaa cccacacatc ttactgtact ccaccttaaa atgcatcata ttgggtttgt 240
ttataacagc acagaattcc aagagtcaaa atgaaataaa gcaggatttt taaagtttaa 300
nanccgttat caaaaataaa ttacattttt tcaaaataca naaatgctgc tatgatggct 360
gggagccag taacctttca atagctgcat tgatatcacc tcctgttgct attaaanctt 420
gcaagtttgc ttcccnggtc caaaatccca ttgcctgaat tgtccnattg ttgctgaaat 480
ctgactcngg atccgttinct gaagattacc cacaaaaact gcacatnggc gaanaactgt 540
ganggcnat 549
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<210> 7857

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7857

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ctagactgaa acaaaaagcc catcccatat cataacatat aatactgcct aaataaaaact 60
ttctatgatg atagaaacat taagtatcta cactggtata gcagccacta nccccacatg 120
gctagtgaac acttgaaatg tggcttgtgt tactgagaac tgaattttaa attttactta 180
atacaaaatt aagcagccat atgtggctag tggctaccat gctagacatc gcagtattag 240
aacataaaaa aattctataa gtaactagaa tactggtagt cctanacgtt tcttgcattc 300
tgaaagccat anaactgaag ttgttatgta tggttatttc tactttttaa aaaaagcaaa 360
ttcttgctgg tctatataat agaatgactt attttcttac gtggtaagaa cagaaatcct 420
acaaggaact ggganctang ctggcaggga aaaattgaag gtgatttntt taatangaat 480
gttatgccaa ttcttctgtt ttccaaaaaa aaaaattatt gcttatgaac attactggaa 540
ccngggnttt ttgttttttt acttaantta ataggtt 577
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<210> 7858

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7858

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gaacattcac aacctttatt atgggtgaga ncttcactac aacttttagaa ataaaaagta   60
aaattacaac atangtccta ggccttggcg ancctgaaaa anaaaattgg gaaaganggc  120
acagggtcct tccacctccc tggaaagggtg canaatganc cangcctaac tacagggccca  180
tgagcctcta taanccttagg ggggaataan aaacactgtg aacttanata tataaataga  240
gagagaccen agcaataggc cgggcctgac tcccanaccc ctgcagatca tggctaaggc  300
cttacatcct cctctgtcat actggantan gangcagggg aantcatctt tggagtatct  360
tggtttttct tatttatgta caaaaaagtc cacatccaca atccaaaata aagttctctg  420
tccatctctg aaactgcctg tctcantttt tcccctgtct gtttggncca agggaatgga  480
attnacttaa aaaaccatgg attttaaaaa aaaataaacc ctggtttttg ttattaaaaa  540
aaaaacattt gggttcaaaa aattc                                           565

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<210> 7859

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7859

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atttccatac atgtttatta tatacacact gcctatagat tctgtttaaa taatctctaa   60
gaaaaaaatc aaacttttct gagcagggtga ttaagctgaa aacaaccaat taaaaccacc  120
actttttaag tgaccttttg tcacaaatgt caaaatgttt ccacaccctt tccaccctca  180
aacaaganac aaactgtttt tgataaactc tagtatttat taaattataa attttgnat  240
cnaaaagaaa aatgcagacc aaaaaaacct caaactataa gactagacag caaagcctat  300
gggaacacca tgaagtgtgt tacaacatt ctgaaacata agttactggc tgttttcatt  360

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tccatttcaa taactttact ataaaatagt tgttattcat ctattttgaa atcccaaatt 420
 cncatctatt catacattaa attatgtttc ctgttcataa tatcaaacad ctcacaggtg 480
 ccaaatttaa taatggtctt atgccatccc tgccgaaaaa ataaganacc atgccggatc 540
 cnatnaggac cntnatgccc gatatncaac c 571

<210> 7860

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7860

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 gctcttgga tacagaaaaa tagtttcaaa gtgtatttta gcaaaacaat ttataatgaa 120
 attagcattt gtgaattaag catgtcaaca ttactgtgtt gcttgtagg cacactgctt 180
 atttgtagc ctttatcagt cagttccatc atttcaatat tttggccac cacaccactt 240
 tgaaacatgt aatgaagggc aagttttata ataaaaaaaa caacttggca ttactcaacg 300
 ggaagtcagt acatgttttt tgcaaggaga acaacataac tgtttaatga tgctgtcttc 360
 aatatactac ctaattctgt ttatgcaact tctcaccagg taattgtttt ttatgggtcag 420
 ttttgctttt ctttgtcccc tagtcaaggg aganttgtta gtgttggtat ctggaaattn 480
 cctcatgtcg aataaaacca ctanatgnac tcatnatnta ggtgttttct ctagtaccat 540
 tacacaaaaa aaaaggtccc caaaa 565

<210> 7861

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7861

ctgtgggagt ataaatatgg ggacatgact atgggactat atattttcac attgttagca 60

ctttgttagt acagttactt ttaggtattg tcttttagta gcattattaa agttaaaaaa 120
 taaaggaaac agaagtaaag agtttataga aggatacaca gaaatacggg acttatctct 180
 gagtggtgac attagaatgg gtttttcatt ctatcctttt tactttattt atacattgct 240
 tatataacag atatcattca agagcaatga agataactgt ataatgctat ggcggtcaact 300
 taccttagca tacaaccaac ttgataataa ataatgggtca aatggccaaa cctaccaatc 360
 cacagaagat cattcaaata tctaaaatga ttatggatca gacatacaga ataccnaaca 420
 taggatacaa acaacaacaa caacnacnac aatttcccat gattaaagcc canggcttta 480
 aaaaaaanac cctttcttag gntttncac ctaaatnttt tcccccccaa aatt 534

<210> 7862

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7862

ctgccaggta aaggtcagtc acctgcacac agatctcacc actcacgata tgctgcagct 60
 gtctgacaat gctctggatc agtttgtcca tggtaaaggc aatgtaggca tgaatgggtga 120
 acatctctct cagtgaatct tcatactgtg atgagcttat gttgccatcc agcaggctcc 180
 gcacatgtc caggaaagct gggtaataat cttctacatc aacatccata ggttctttga 240
 nacgtanctg aatggcaggg ctgtcactct tgtctcgctt tatgcccage acttcccgtt 300
 cccattctct ctctcggttt tcttcttcaa ttgcccgttc ggcttgggaa caaatccgta 360
 gcagcctcag gcaganaatc tgggtcagtc gcataaaaaat ataccagttg ttgttgacat 420
 aaaaaaagtt gtatacttca tccaatccct taatttttga actgctgtnt ttacaaacaa 480
 ttacttggaa ttaaggggaa tgccccaanc ccatttgctc ctaactgccc cttgggntnc 540
 atcnaantca nct 553

<210> 7863

<211> 520

<212> DNA

<213> Homo sapiens

<400> 7863

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atnggacaac acanatttat tatgtttatg acatgttaaa taanctggan aggttanant 60
gacagttctc agtgttacct tttcagggtc atctttccct aaagtacagc aaaccaaaaa 120
aaaattaaat taacttggat caatttcccn aataggggaat ctaagtgact atagaaaaat 180
ttacagaaat acntctggaa taacacacnc agacatatat ttntaataa ctgttaacat 240
aaaaaacagc taaaatttct ncnncagaa aacagatgcc aanatgacaa ataantccag 300
gtaggcattg taaaatctgg ttaaatacac taanaaaaat actaaactgg tgagttttac 360
ccnacaggga atcttaaaat accanaaaaag tacctccaat tttaccttnt ttggaaatga 420
aacaattcn ttattttaat atttaaanat tgtggtagta tantccaaac ncttaatntt 480
ataatatncc tttagaaatt aaatttaagt cnccccaccc 520
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<210> 7864

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7864

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gtttganaaa tcttttatta gaanatgtcc cagaagggnn acattttaaa atcaggcaat 60
cagtaatcac aactaaatac aaaatttcag gtgaacttgc ctttcaaaat aaatcanacc 120
cttgcaacag gaaattgccc caagantttt tttccttgn caaaaacagt taacaccact 180
ttgcnaaagg natncaaaaa tacaatatna aaaaaaaga ctccccagc ataatagcca 240
acagcagctt ataaaacaca agctattcag ttganacatc agtaacctac acccaaactg 300
tcctccatan acaattccan aantcagctg gcttttgta accatgctcc aaaagggtna 360
anaggctatt tccaaacatc ccttggggtc ctctgaaggc aagaagcacc tcngaaagaa 420
accattatgg acaataaatt tggaaatnca gctggttttc ccnaaccata tntattctta 480
ncaccctac caccceaact tccaaacca aaccncaggg ccttgctntt cttgggnaaa 540
att 543
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<210> 7865

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7865

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aggatctgta aactacattt attgaatact tactggacac atcatataca aaaaaggatg 60
ggggcaggta anaacttgaa naaattaaat atacacatta agtttcttca ctaattctag 120
ccactaaaga agtacaaaat ttgtacaagt aatactttat aatgaaattt tgatgcctgt 180
caaaagggtta ataagctata catatactac aataaacatt tttaaaaact gtgcttaata 240
tcatagaatt ttcttaaaat gggttggtta aatacctata tagcatccat tcttacacac 300
atatittcca ctaaagattg cttaaatagt acaaattcct attgctaana aattcatggt 360
caacagctgt atatgaagtt cctctaagaa acatcacagc attgcagta agtccatttc 420
tccagtgaag cccaccttat tttcagttta ncttactaac aagttctcat gaaaacgttt 480
anatgtcttt ngctggncac ctctccagt ttccgaatcc tttttaaaca atttnaattt 540
cccaaatggt tt 552
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<210> 7866

<211> 481

<212> DNA

<213> Homo sapiens

<400> 7866

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ccanaatgaa attttattgt gtaaagtta tagaagtatg actagtattc ctttgtacaa 60
agtacacaac ggttttaaat ataactgaga naaatgtgag tcctntgaca acatctgata 120
cacgctgaac catttacaga cactactaaa atgttttaaa atatcttctt tctccaaaga 180
gtcctntgag catttcttag agtaaanatg gggacacatn ccaggcaagg tcacnatggc 240
attttgttgc cctcaangct gattttcnct gcgtgtgcan atctgctttt tttcctnata 300
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tctgtgaact ttctcatctg ttnanccagt cgaccgatac ccttcttgga ggtcgccctga 360
aacctggatg actccatttc cacattccat ttgggcctga acaacataac cttgtttgaa 420
ggcattggga cccttgcacg ggcnnaatc ccnggatctn cncgtcttng aacctctccc 480
c 481

<210> 7867

<211> 534

<212> DNA

<213> Homo sapiens

<400> 7867

atTTTTTTTT cctcttaaga gtaatatata cacaacacag cagctacatg ggtgttcagg 60
caaaggggtgc atgaacgana agccctctgc tccctgcccg atgagaaagt cccagaaaag 120
gattcagcag cagcaagtct acagcacaaa catggatggc attgtccctg aaaacacaca 180
gttaggtgga cctacaggag acattggagc ctaaacaatgt gggaaagggc tcagttacag 240
tacattctac tgcatacact tgaaatatta cagtgtgttt tttctccaga ctattataaa 300
taatTTTTcg tgctttctga aaaaaataaa aactgaaact ttcagtctgc gatgaangtg 360
aaccatctt ataaagcaga ncttacttac attctgcagg attttgggtg ggatgcataa 420
aangcttacc tggttagtaa gcctccattc ctccgaacta canaaagnaa nccttctgca 480
ctcccancan ggaattctta aaaaaaacia gtnttttaaa aatcttactt tncc 534

<210> 7868

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7868

gatttgaaac ttattatat aaattttcat ttcttttaaa gattacaaaa cctgttctat 60
gacaggaata caagcaatat tgttccagga ttattcatgg atacatctga agagcttaga 120

ttacacatta atagtatgat ttgaaaactt cccagattag actcttaagt aaaacaattt 180
 aaagtattta gtgatatttg atcctttaca agcattttat aattatggca gcaatgccaa 240
 gcatctgatg cgatttaacc accaacaaaa ggtacaatat gtaagaattc atgatatggt 300
 atcttgggct tctggcatgc cttactagag agaaactagt ataaaggaag atcatatata 360
 acagtagaaa aatattttgtg atttttttct tttttaaaaa ctatttaagt aggcacccac 420
 cccattccca cccatgacca aaaatgcaaa ataagtacat cccttaggtg tataccttcc 480
 cttttgctta gggngcagtt aanataaact aataccgttt ttgaatttta ganttttaaa 540
 ccccccccc cntcccnng ggg 563

<210> 7869

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7869

aaatTTTTTt ctttcaattt ttattcattc agcaaatact aagctccac tatgcacata 60
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 gcactccaaa aacatacaac tcttcatgct cctcccttct ccgttcttgg cctcatctct 180
 gcccacatca caggttggtt aatgctcaca tgaacaagaa ctttaagcaca gtatgacatg 240
 gcctgtgact tatacaaatg tctgtccac caagaggcca tcttttaaag taggtactag 300
 ttccaagcct aaaaacaccc taacgggtct tcagcttcat ctgaggatat gccacagtga 360
 tcatgcctgc tatagaggac acaagacctc caagtccaat gatgccagga ttggatttat 420
 agatccccag ctggtccaaa gggttcagga tatcacaag gttcttact gtgtccaaga 480
 acaagggaag atgctgcttc cnaaatctga atnnaanaat tttaaaggat tgggnccttc 540
 tgtttccncc ccccccccc tnaaac 567

<210> 7870

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7870

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gcacgtagta acttatagat atatttgaa aactgattat cttttaaaaa atgactacta 60
aacagattaa aatgcagagt tcattaaaat acagaggatg cctctgggtc tctggtattg 120
actctttttg tctactaana taanaagtct gggctaggct gaaaaactca naatccaggt 180
ctggggtttc ccagtactat gctcccattt ccgagtactg tgctcctatt tcccagtact 240
gtgaactccc ctttcccagt actgtgggct cccatttccc agtactgtgt gctcccattt 300
ctcagtactg tatgcccatt tcccantact gtgctcccat ttctcagtag tgtactccca 360
tttctcagta ctgtgctccc acttctcagt actgtgctcc cacttcccag tactgtgctc 420
ccatttccca atactgtgct cccattttgc agtgctgtga gccccattt cccagtactg 480
tgctcccatt tcgcantact gtgctccatt ccnaatacgt gcncccatc ccnaangtt 540
gtaccaagtg tttaaaaaaaa tntccgggga a 571
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<210> 7871

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7871

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cgactggggc aggcgggctt tattccgggt gctggaaanc tgtgggcccc actcctcccc 60
caaaatgcca ccgggttgag gggctgancc tcancagggg tgagcgtca aancangaag 120
gggatgatgg gcatgcgcag gggcgggtaa tcccgggaact ccttcaggta actgcggtgc 180
ttgcccttgg cccaaatggt catctgggtg aagcccacca gggganaaca gggccactgg 240
ganacactgc ntcgatgatg cgaaaccgat ccaggacccc acctcgtagg tgtatttggg 300
gcaggacacc ancaggaaaa gccacgtgaa ggggttcttg gtggggtatg ggatcttccg 360
cgtcttggac ccancgggcc gcagggtccc cagggccatg tggatggaaa atttccgagc 420
tggcataatca caaaatggc naacgccant ttcacctgct gaactccgta ggtaggggga 480
atttaaaaaa ggtgattgat nttataggcc accaccgcg aacccatta ttagttgcan 540
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tccttgaaaa ttttcccca ngcatattcc ctgggaaaaa ccgtnccaaa aac 593

<210> 7872

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7872

gtcaccagga ctatttatta tttcacttaa tagattaaac agtgaattca cagaacatcn 60
 agtggggata tcaaagcttt aggcaaaagg gtnaaaacca atagtgtttt ggatcatctag 120
 aacattaaaa agaaaaaaga gccntccttc naaaacaaaa caaatgaaac agaaaatagg 180
 ttataagag gtggaanagt cngaaaaatt acatacacac attaacaaca tagaacatgg 240
 attacctttg gaaanaatca tactgaaatg ttgcttttta ataaattgaa natttttcat 300
 gtttacagat gtttgggtat gttcaatagg agcttccaaa aatgtcaaac taattcagtc 360
 ttgtgcaaat aaaacctaata aatagttttc agcagatttt acagtgatat tcttagggta 420
 tganaanaat gcncaccctc tanaaacnat gaaacngacc aaagtttgac aatgaatggc 480
 ccntaaaaca atgttttttt tccgttaca aa 512

<210> 7873

<211> 567

<212> DNA

<213> Homo sapiens

<400> 7873

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 tttctagctg gcactgaaac ttaacctatt tttttgaggg anaaaaanac taaaatgtaa 120
 gcactaactt cctccttctg catcttcac anaaaaccca cttgtgggca ttctctttct 180
 gtccgttatc agtgggttta catccgaagg ccggcggcaa gacacttgaa ccacaaacac 240
 canacatgca ggtgtctcaa tggcatgcan attattttaa gtgcatcact tgtgagaanc 300

tctcacaatt tctgactgtc ataaccaggt gtcacctaaa atctgtcctg taggccaaga 360
 tgctacacgc agcgcccagg cagtcagagg taagtgagcg cctcccgctt cagaaagctt 420
 ttacagggcc acgctcgcca ggctttcctc gccacgctg aaccacgtcc tgggcacagc 480
 aactcccaag ctgtcncaat ccgctggnaa tgccancaca cctctccgaa tcatncacan 540
 tggtnctct ataactctca nccaacc 567

<210> 7874

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7874

gagatggagt ctcgctctgt cgcccaggca ggagtgcagt ggagagatct cggctcactg 60
 caagctccgc ctcccagggt cagtcattc tctgcctca gcctccaag tagctgggac 120
 tacaggcgcc cgccaccatg ctgagctaat ttttttttg tatttttagt aaagatgggg 180
 tttcaccatg ttagccagga tggtttcgat ctctgacct cgtgatccgc ccacctggc 240
 ctcccaaagt gctgggatta caggcgtgag ccaccacacc tggccaaaat cctatacatt 300
 aaatgtttgt cttacccaaa ccccaaagtt aaattgtaa tataaaaccc acagcggggg 360
 tgagaaaact ggagaacagt ctttctctat ttctctacaa tcttcaaata agaagtatct 420
 gcttatataa gacaggtag tggcaatacc tggcttanaa agtttctaga tttatttcta 480
 gctctctaca tactgtgata aagtcctaaa gtttaaaaat accccaata ttacaggcat 540
 gctgctttat aaaatatgcc ctaaattcna accaaatact cctttctt 588

<210> 7875

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7875

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cangcagga ngtggggcgc aatggaagtc naaagangtg gaacgtgcgg aantcctcca 120
gcccccccc aaatcccagt tcccccttcc aagtccctcc atgggggtctc canatgatcc 180
taagctcana atccaactat gaantgcaaa atgtnagggc gcaggggang aagactttgc 240
tcctctctct ggtagaaaaa tanatctgga atgaatttgg ggatttggtg gttttttttt 300
gtttttgttt tttgcatcat tgggtgcttg ggtttaagga aaggtggtct ttgccgattt 360
tctcctggct ttcaactctg gaancctggg gangccctga taatgctggg gtggggacat 420
cccttcatgt gtccttgccc tcanactgtc tccttgccac ctccaagaat gagtgatccc 480
tccgaccctt ggaagaacac anctctgggg antatcccct aaaangtggg aagggganag 540
aaaaactttt aattttngga aacnnggaat taatt 575

<210> 7876

<211> 527

<212> DNA

<213> Homo sapiens

<400> 7876

caattaacaa aagtccttta tttgtgaaca atgaganana ctgacactag ctttgtatgg 60
ttttactttg gaaaatttta caaatttaaa gtaataaatg tnttcatttt cttactctgc 120
agaagtcaa ttttaaaaag aacattactg ttctaaaatt tcaaaacata caacatagtc 180
tgtgcttgta acattttcag attcgtctgt gacagcttga tgttntgaag agaangaggg 240
agaatggctg tgagtggaga aaagagcgag agaataattct tatagtaaat gtttagtaaaa 300
ttaanagaaa taatgggtac tgtcactcac aatataaaaa ctccctgctg ttttagcaca 360
acctggtggt gataaatttt aggtacagaa aacatcngaa aaatcaataa agtgttctaa 420
ttactttaaa tctacttatt gtatgctatt tttttcnat tcnnaaatct caatatcccn 480
ttccnancaa ttagttaaaa ctaccctgnc ctgttcaaaa aaaaaac 527

<210> 7877

<211> 613

<212> DNA

<213> Homo sapiens

<400> 7877

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gactttcaaa gtttcttatg ttatatacag atcaatttct ttcaagaaac cagaagctaa 60
agagaacaaa atctgaaaga cccatcctgt ggcagtcact gagctaggag aattttacca 120
attattcaat ctccatagta atcatgagag gtaggaatct caagtccatc ttacagatga 180
ggaactaggc tccacaattt aagtaattgc tcagggtgcc acatattcga ncctaggcag 240
tccccatgtt tcctgctgca ccaaatgcct cacctgctgt ggctcctaata aggacgttgg 300
gagacttaca acaaaggctc ttgacaaaac agagctgtgt ntagctttcc caanaaacaa 360
ttgctttcta aactctctat ttctctctca aancagaaaa ctcttttaaa tcccctggac 420
aagaaatgga atcttcttca ctgctagggc tcgangttcc atcccaaagc agttttgatc 480
caaacgccn gctccacaan tctgtgccct ctengaacct actccctcat aaccgtggta 540
tcancntcc tgcttactaa tttnggcatt ttgtccggtt ttnaacaaaa aggaagggca 600
aatgccncc ccc 613

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<210> 7878

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7878

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gctaagctca cttanaaaag ttgggcacca tttaaaanan ttggagaaca naccagggtg 60
gcttcttggg cacagctgga tgggtgctgga anccaggcct gggatttgga naaaaaantt 120
tccgacatat aaacccacgg aggtcaccag ccctccccgc atctactctc ctaacagctc 180
aggacagccc cgtcacacta ctgccagccc tggtgactca ctttgttggc aatttttaaa 240
gccctcttca ttatgtactt cctactcttc agaacctctg tgataagcaa taccctgcc 300
atacanaacg ctggatctcg gtttactcag cctctccctg tagcgtcaca ggctgtgcac 360
tcacctaggt gagcccctaa aaacagggtt tgcttctgct tcacctaacg ccacgtcttc 420

```

cctcaaagtgt gtggtcacca aatgttttgca aaaanggtcc tancctttttt nctttttggca 480
 cattaanccc tttaaaatac ttctgaacta anctttatac tcaaatttcn cccctccnca 540
 aaaaattttt 549

<210> 7879

<211> 605

<212> DNA

<213> Homo sapiens

<400> 7879

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 gaatagatac tatgagggtt agcaagcaaa ccatggtggg taccacgttc ggctacctta 120
 ccctgatcca agacaatgat ttcatctgca tcaaccactg ttgacaatct gtgtgcaatg 180
 aaaatanaag ttctgtgttt gaccacatcc ttcatggcac caanaatagt ctcttcagta 240
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 gctcttgcaa ttgctactct ttgcttttct ccncctgaaa gcttgantcc tcgttcccct 360
 acttgggggtg tcatatccat gtggcattcc aanaattgca tcatgaantc canctaattt 420
 tgccactgca tacacttcct caggtgaaac actgatnttt ccatataaaa agttgtaata 480
 aatantatta tggaaaaaag aaaacatcct gaagttccac nccccctgnc cccccaagg 540
 ntccaagct cacatcttnt ttnttttgac caccaaaaaa atgccccctt ttgaaggccc 600
 anaaa 605

<210> 7880

<211> 517

<212> DNA

<213> Homo sapiens

<400> 7880

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aactgctagg tccccagatg tacccaagtt gtctaggact ggcaggggta gcttgtttgc 120
 tgtagtgttt gagggcaaga gactgaccat ccatgcagaa agctggcctg ggctgctcgc 180
 tgcttgccgt ggctttccca cctcattagg agcccgttc tctcgggtggg gagatgctgc 240
 cccagagca tcacctggcc aggtctgagg gcagagcatg gagtgggtcc agactttgtt 300
 tctctgctgc cagccgtaga aaggtctggg ctgtcagatc tcccccaagc cagacagcct 360
 cgctcagctc cttggctggg gcccttagg gaacaggcct gcaagtgtga tgagccaggt 420
 gtgctcatcc aggcagctac aggcgcagcc tctgatatct cactgcggaa gtctatccgc 480
 agggncagca cctggcgcac ttcacagggg tnnnnnn 517

<210> 7881

<211> 436

<212> DNA

<213> Homo sapiens

<400> 7881

gaaattggag taaaagttaa ataagtgaag gaaaaaagct ctccacagtg gaagtgggga 60
 tccaaataag ttgcccagta tgaggctggg gtccgggggtt tttatggact gggaagggga 120
 aggaatgcac ttagcctgcg ggctgtcttg gagaaagcgt gattcagctt ggtctgggac 180
 cttggcccgg gaccaatcag gaaccgaagt gatgattcat aggggctatt cagcttggcc 240
 cgggaccaat caggagttga agtgattatt cctaggggct attcagcttg gcctgggacc 300
 aatcaggagc tgaagtgatg atttacagag gctgggcttt tccttttcca caaaagaaag 360
 tgccaacctg aacctactga agcccactgt gttcatgccc cacaaagaag aaactttttc 420
 ctccgaaccn nnnnnn 436

<210> 7882

<211> 585

<212> DNA

<213> Homo sapiens

<400> 7882

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ctggaccagc tganttttta ttttacagat cataaaacgg atgaaagtat atcacagtaa 60
ttaatgaagc cgttctaatt tagcttgaaa aaattttaaa ttcccagtga tggnttgtnc 120
tgctactgac gaactcataa actggagctc aacaaggtaa ccacaaacag catccaggca 180
naaanttgtg aatcttctcc tttcacaatt taaaacttgg ctgggattct caacatatct 240
tatcaataat acatgtntac aatccaaaag gtgcagtggc ttcttcattc tgttccagaa 300
tggtatcccg gatttgaaca actgatcata aacttctagt agtctaggta atggtactcc 360
aatttcattc attgtctgta ttacgaagcc cacatcccag ttcaaagtac aaacctgctg 420
ttctaaaaac tgtacaataa aatctaaang aaaaaaacct tggttttgcc accataaant 480
ttggccaagg aaaacaatct tgaaaactaa aaacctgcnt cctatccgaa gaaacncaat 540
gttccccgg tcncccantc cttctctatn aattcctgnc caatt 585
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<210> 7883

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7883

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gacagaagaa tattttatit atttataata tcattttgta aacaatcaca ctgtgcactt 60
ttttattcna caataanaac aatttttttc tagggattta tagcaaacc tatataaagt 120
gaatgactta atacacgant gaagatgact agggtagaat aatttctgaa aatgtcnaat 180
tacagcactt gatacaaaga ctgatgataa ctatctgtac cataaaaatt tacatgccac 240
gaaaacatta atttataatt ttaaatatac agtaaaacat agttataaaa agagtattac 300
atttattata aaccagtga ttactcngag aaatatattat taaaacctac taaaaccag 360
taaataattgc aactgaggta aaaatttata agtnaacaaa actatcattt ataagggacc 420
nagaaagtna acaaaagggc agacattttc tgatgactgt gtctaccct gatattttga 480
agcagcttcc acaaagttna ctccataacc tgttgaacct tcnttaccna gggctncgct 540
anacctaata atttttccca atccgttcca ttgtng 576
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<210> 7884

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7884

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antaaaaatg gggttttacc atgttggcca ggctggcttt gaactcctga cctcaggtga   60
tccacacgct tcagcctccc aaagtgctgg gattacaggc gtgagccacc acgcccagcc  120
taaataatttc tttatagcaa tgcaaggatg gcctaacaca ctgcctaaat caaaattgct  180
attcacttca agggatttca ttacctgact agcttttttg ggtgcatatg aacataatgt  240
aaattttatg gctgatcaaa tgtcattact atgaaaatac tccctatgan ctcacagant  300
caggacatca acaataattta aactttcact gtaaacaatga cacantggta ggcactgtgg  360
aaatatattt ggtcctattt tccctacctg agcatgtnaa agancanact attctaacag  420
tgtgatgact ctgcagtga aaaaaaatcc actctcccgg cacactgata aaacatgttc  480
ctgggcatag tattcctcna aggaaaatgg tcntaaaaat natctgcnaa atccnatanc  540
atcccaaagg tccccctaa                                     559

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<210> 7885

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7885

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gtccccataa tggtaggatt tatttcaatg ctcacataca attgaatgag acaaactatt   60
tacataaaac ataagtacaa aaaatataat acaattttata ctgtacacaa tcaggattcc  120
cttgttttgt tccccccaca aatggcagct anagatggta agaagggggg tggtaggaaa  180
gtgtgactgc aactcagca gtgctgagga tagatcttca gaatgctttt tcataaagat  240
gaatagggtt gagatacana aactgtcaat gcaccaagag cagtaagaga gcacaacata  300
ttcacttctg taataatagc tatatatattt ttcttataaa cgtgtttgtt tctcaaant  360

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gaagcttgga ncaggtgtga gttgccttcc attgattggt taggtgaact cgcgccaccc 420
 ctgctccaac ttccataatt tgatccaatg ccancaggta atgaatttnc catttgccac 480
 aattggtttt cttaacctga atttcaaaaa aanaatgcan cnttcaaatt tcnttaacca 540
 ccaatccngg gatacaaacc taaacnccnc cc 572

<210> 7886

<211> 583

<212> DNA

<213> Homo sapiens

<400> 7886

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 acaaactgtg ctttaaatac caaacaagta aatcagaaag cttattttct atttaaaata 120
 tatctaagac acacttatat aaaaagaaaa cagaccctcc taacatgtaa cattaccgtt 180
 cgtggcaatt gttctcaacc ttctactctc cttttgacct tagcattaag ctcttttgc 240
 cacttctgag ctctcagtta cagttcttga ggtggcatcc taaccaattt gcactatctt 300
 tcagggtgaag cgctggatnt ttaccanata attgaactcc ccaaaaggcc ccttggaaaa 360
 aacaaaacca ncctggaacc atanccactg cctggaaggc tcctgttttt ggctccccgt 420
 gggaaacttc catccggggt ggggtgcaggc tcccaaactc aggcttccac ntgtgctttt 480
 tgcaaaaggg cttgcctaag gccagccatt ttccattanc aggactgcca aaaaaatcct 540
 ccaactgaan ggtgcgttaa attcatnggt caaaccaaaa ttc 583

<210> 7887

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7887

gcattcatat ggtttttatt ctgtgcaaatt tctactatct gctgagactg aacttctggc 60

aacaggctgg ctacaaatgg ctactttgct ctctgcttgg aacgcactgt tagttaatga 120
 ggtctgagct gccacagaag gcatctgcan agtcaccatg ttaacanant ctttatcctg 180
 tatganatca cgtgtatgtg ataagctatg actctctgag caaggatttt ccaatttgac 240
 tgaacctaca catttctctc ttgcatgcag cattccctta tgataaacia ggcatgacaa 300
 gtggganaaa gctttccac aatcagagca tccatacggg ctctcccctg tatganttct 360
 ccgatgtctg ttgagacatg atttatctct gaaagctttc ccacagtcac tgcatgtata 420
 gggtttctct cctgtgtgaa ttctctggtg gttaatgaga cctgacttgt gtgagcagga 480
 tttccacac tcagtacata caaagggtgt ctttcctgtg tgaaatctct gatggganat 540
 taaacatgtn ttctggctga aacc 564

<210> 7888

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7888

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 gaagccgagc aaancatggc aggcaagtga ggggtccan ctgcagaggg cagaancctg 180
 gccaaagatg cccagggagc aaatttgtct gagcagggcc agccccaggc agctagaagt 240
 taacacacia ggatttatgg gtgtggcana atccaagcca ctggtcccat anacanatct 300
 ctctcatgct tggtcagatt ccactttgga gaaaatgggc tcgtttgaca ggatggcctg 360
 gtgagggac acaggtacta acggtaacag gccgatgaac actcaccact ggcatcaggg 420
 tggaactcac ctgactggac ctaactccat tacaaggacc tgctcctgnt gccagnctnt 480
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<210> 7889

<211> 565

<212> DNA

<213> Homo sapiens

<400> 7889

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aagtcacaa caaacttttt ctgagtattt gattaccttt ctttcaaacc gtacagtatc 60
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ggaaaatctt ctgatgcttt gatggtacat attcttatta atgccctcac attagaataa 180
ctattttcag aacataaaat tgtaggttca aagttttttt caggttcaat ttcacattct 240
tganctaggc atggtactga tggttttcac cataacatac accaatgtcc ttttgtctgt 300
gggctcccat ccagcctggg ggctgaagtc atctacaggt aagattgacc aaacctctga 360
acaggactga aaaaaatgtt atcttcagaa aaccagccct cttgtacact gctgctgtga 420
atacaaattg attaactttt ctggatggca atctancaat gcagatcaaa catttaaaaa 480
tacatatnta tctcgacaca attttatctc caggcatcca catgaaanaa cncccaatgt 540
tcaaaattgt caaataagga tcncn 565

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<210> 7890

<211> 569

<212> DNA

<213> Homo sapiens

<400> 7890

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acaaagcacc aggagttaat accattctgg tgaaggggat ggttttacia aagtgaagga 120
ncaggcagga nccaccaggt tctgaggcca ggcccagcct actgccccaa acccctgaaa 180
cggctccctg ggaaaaagct gacanatggg tcaggggtgg attganctgg aaaccatggg 240
gacagatggc aggatagag ggtcatgcan tgggaaccac ccagtggctg ataaggacag 300
ggaacttgtg gctggaggct cccattggg ccatgggcan gggcttgcaa atggcctcag 360
ctctgggggc aggtananaa actgcanaaa ctgatgggca tggaaaaanc canacatggc 420
cctggggctg aagggccttt cccctctct tccanaaac ccctttgctc tatactacat 480

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atggggcttc agggcccaag gncagggaa gctcaaaagc cnccatttgg aanaaaatng 540
ggcaagaaag aaacccttaa ttttcctac 569

<210> 7891

<211> 575

<212> DNA

<213> Homo sapiens

<400> 7891

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aagctcgaaa atcatacatt aagcatagtt tgaattgtcc tgaagttata ttctgaaggg 180
gctgtaacac ttaagaacta ataataatga aaaggcaaaa gcattataac tcacagcaca 240
caagactttt tacctcatct ataaaacgtg agaatgtcaa tgttttattg gctacaagga 300
taaggaagga aacatcagag aaataaattt gataacaaga ttcacacttc attacaagtg 360
attttcctaa attcacaact ttcacatttg gctgagtga agagaaaaac aaaacaaaaac 420
aaaacaaaaac tgaaaaggga actttcacta cttgttaagt aggccaactc acatgatccc 480
tccaaatgaa aaaattttaa tganaatgaa tttactttcn aactgggaaa atatttcctt 540
nnataanttn atttaaataa tttanccctg gggaa 575

<210> 7892

<211> 433

<212> DNA

<213> Homo sapiens

<400> 7892

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atgaaagtca gaagtttagc gaaaattcgg cctaaacagt aataaatgaa aatggaatgg 180

aaatcaaagt tcttaaatan aacanaaggc tgggcacggt ggctcacgcc tgtaatccca 240
gcactttggg aggccganat gggcggatca cgaggtcagg anatcganac catcctgact 300
aacacggtga aaccccgtct ctactaaaaa tacaaaaaaa attggccggg cgtggtggcg 360
ggcgcctgta ntcccancta ctcangaagc tgangcanga aaatggcgtg aaccggggga 420
ngcagancctt gca 433

<210> 7893

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7893

atttaaaaat tgcagacttt atttgacatt cctcagcttt tctgctaatt tcttctttct 60
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taactttgca acctcttctt caatcctcct gcttcagcct cccaagtagc tcanantaca 180
agcgtgtgcc acacctgtct aatttttgtg tctttttgta gaaatggggg ttcaccgtgt 240
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acctactctt taaaaatttt gtaaaaggca taaatttgaa aaatatatcc tcattaatct 480
aaatcaagtc attgatacaa ctatttaaca agaccccggc ctgcttggtt tattaacgan 540
ttggacnnan tcncctttac atatataata attccgnnt 579

<210> 7894

<211> 404

<212> DNA

<213> Homo sapiens

<400> 7894

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aaaaaaagaa aacaatgttt attaggatat tctgggggtga gaggatggcc aaagggacta 60
tgtacattct gtagtgcttg agcaataggc taacagaaaa ttcgaacatc aaaaaaccac 120
ttccaaagtc catattgcaa aacttgact tctacaggan atgttcttcc aagggtgttg 180
gcaataaagg ctgttgcaaa acagctatgt gaggcagcca tgtgggagtg accccaggan 240
aatgctccgg tgcctcttgg aaagcanata cacaggacga tggacnaatg tgatcatctc 300
taccactggg aagctcagta aacacacnat atnacatgga gacccgccc n aacctaactg 360
gatgcttctc ancnaagctc agtcgaccct cnnccctgt ttcc 404

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<210> 7895

<211> 478

<212> DNA

<213> Homo sapiens

<400> 7895

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gcattagaca cagtttaatc gccttcaa at agatgaaaag ttccggttta cactccccca 60
ccgcataagt catccagaca ggaccctggc ttagaaaagag gaaaacacag gtgctctagg 120
aaatatagcc acatataata cataaatctt ctccctgaa atagagcagg tcctgagcag 180
agctgactgg gggccacagc ccacccccag ggtgaagtgg ctctgggact ctgccggttg 240
aagtgtgga agagcggggc ttggaggaag cccccagtgt gggtaccata gccagaggtg 300
ggccgaggcc ttagggtgag ttacccgaga gggcagcagt gctgggcttt ccctcactca 360
gccgaggctt aatggaagaa ctggttagca ttttttttt ttttgagggt acctcngggg 420
aaaagganan ganaaggaga gcctntntgn gccttgggtt ccatttgggc attcaggg 478

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<210> 7896

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7896

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aatctcggct cgctacaacc tctgcttccc gggttcaagc gatcctcctg cctcagcctc 120
ccgagtagct gggacttcag gcccagtaga gacagggttt caccatgtta gccaggatgg 180
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tagtggcaaa ctcaagcaac taaagtagat cccaagcctg gtagttcttt tttcttctgg 480
gncttgaaaa ctcatgtcc cgnacctggn atctttcaag gatgtncgg gccattccgg 540
gaantactgn gtggcncac 559

<210> 7897

<211> 571

<212> DNA

<213> Homo sapiens

<400> 7897

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ccttatcaag tagcaattac attgtttaaa aaaaaaaaaa agaacagtac atttctgtct 120
acattccgac aatccaacga ggcggcatgg gtcacatcca gtttgatgag gtgacagagc 180
cagcagtcac catccatggg catggttctg aggggactgg ggagacacag accatacatg 240
atacaaaatg attctgcagc aagtctgaag gagcgcagcc tccctcctaa tacataagaa 300
tgaacgtcca ggtagcagag agtaggcgac ttgcataatg agcgcathtt attaaataga 360
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cagggacaaa agcttcctat gcgcgtttca gcaggaatac tctnttact tcaggacttc 480
tttggtttng gatttttttg gcatggattt cttttccatg gtaaagnaaa gccaaacttt 540
ttnaagacac agggcantta gcttttaggg g 571

<210> 7898

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7898

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gtatgtgaaa taaaaactcc atgctgaagg ccaaattgac accagccaca agattacgtc 180
tacagtgttg tggaatcac tgcaaagaat gccatctcca aaacactcac caccagcctg 240
gacaaagcac gagagagtac actgaaggga ataatcctgc cctggccccc aggggaggga 300
ccagatggga cctaatagct cttttctact actcatttct atgataáttt taagttgcca 360
catggcatat gtatTTTTTT ttaatctaaa ggcagaatat cagtcaatga agtgaccagg 420
attttaatga aaggtatTTT ttcataaacc gtatctattc acatgggata agttttcatc 480
taccaccaac ttntcacttg ctatacaaca catnacttac tatcaagggtt ggganaagtt 540
ttttngangg caaccccatn tg 562

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<210> 7899

<211> 466

<212> DNA

<213> Homo sapiens

<400> 7899

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agaagcagaa aaaaacagct gttttattca actattcaca atagagaata tttataatct 60
agtcactgaa acacgcattt cttaggccac tcctagaata tgggaatagc tgttacataa 120
aatactgntt tataattata ttaataagaa aaagcatttt acctgttcca agaggggaaa 180
aaagctcctc attgagtatc ctttgtctnt agatcagaat ggtaaagtct tgggcctggt 240
tcttctaccc tggagcaatt cttccccagt caccctccag ggaatgtcag aaaacgtgaa 300
gaactttaga gactagaatc atattcaaac tttccttgaa agtagctata ataaacacta 360
acaccttttt taaaaggcca aattaggtaa cttcttttagg tggatcatcc agcaaaagcc 420

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aatgaacctg aatacaagct atttttttct tttctcaaan nnnnnn

466

<210> 7900

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7900

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aagtcacatg aaagaggctc tatgcatcat gtggcctgtc cgaataaaaa gcaaacatta 120
gaatgccatt tcagcagtta cagtgttgat atgatcaata tagctaattt ttttataccc 180
gtcatatatt tttagaagtc atccgtaggg aagaagcaaa caacaaagac tgcttttttt 240
tagaaaagtt atgtgccaac ttcaaaatga catactaacc agatatacgc attcgaaagc 300
taggttgaat aggactggcc ttgatgcaca tgcagatgat ttgctttcat aatataaaat 360
taaatggtaa tgtcagctgt attactactg gtctctatatt tatgattaat tactagcagt 420
acaactccca gaaggaagga gatggatcca acagcgatgt aagcaatccc caaaaatggg 480
ttttttcctc catcntggaa tangntcaag aacatccgtt ttggccctca aaaaatggcc 540
gggnaatntg aaaagg 556

<210> 7901

<211> 489

<212> DNA

<213> Homo sapiens

<400> 7901

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caacatgatg aaaccctgtc tctactaaaa atacaaaaag tagctgggcg tgggtggcata 180
ctcttacaat cccagctact tgggaggctg aggcaggaga atcacttgaa cctaggaagc 240

agaggttgca gtgggccaag atcacaccac tatactctag cctgggcgac agaggtgggg 300
 aaaaaagtag gacccctgtc ctatattcag gtttttctca catatatgaa cccatctaaa 360
 ttctacgttg ttaaaggtag cttaggttaa ttagtctata cttatttaag accaatatgg 420
 ggtgagatgg attttttttt aaaaatncta cagtaaggnt ttctactttn cttntaatgn 480
 nggaaaang 489

<210> 7902

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7902

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 aacctctgcc tcctgggttc aagcgattct cctgcctcag cctctggagt agctgggatt 120
 acagatgcgt gccaccatga ctggttattt aaaacatttt ttgtatttt tagtagagac 180
 ggggtttcac cacattggtc aggctggtct cgaactcctg acctcgtgac ctgcccacct 240
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 aatgtcaagg aacaatttta ttgtgttaat acatttactt taagcatcta ctctatttag 360
 ctgagactat gctttttctg ctacggtgac aaaagtccat ccaaattgct atgcttaata 420
 cattctttat taccaaagtc ccaataaaaag tagtaattca aaaaaactaa aactcanaaa 480
 aaaaaaaaaac aaccttcaca ttatgnggaa aactggattt taaattaaag ggcctaaatc 540
 cnttttacna agtttttggc 560

<210> 7903

<211> 507

<212> DNA

<213> Homo sapiens

<400> 7903

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 gcaggcagac ccaccagggg tccctgaagg ccagcccttg agaaggngtc taagccaggg 240
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 ggaagaaagg caaagacana ncccaan 507

<210> 7904

<211> 496

<212> DNA

<213> Homo sapiens

<400> 7904

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 ctccatcccc atctctttcc cgctagcgca gctgggggaa ggtgcctgct tgccggcccc 180
 acggattctt cggctgtggc ataaggcact gtgtgttctg caggaaggcg ctcatggctg 240
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<210> 7905

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7905

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agtgaatatt tttaaatttt attaatgaca aagcaaaatt taacacagaa gtatatatac   60
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catacacatc tattacagga atcacaaaac ttatctccat aaggaaactt taaactccag   180
aggcaaaaaa aaaaaaaatt atctccaatt tccccatga gaatcaaaat tgcaattttt   240
ttaaaaaaat tgcaattttt aattttatac tttaatacct ttagttttaa gacaacagtt   300
aacagaatca attttagata caggtatttt ttaaccttaa tatttaaaag tccaaaatta   360
tatagaatta atccaaatca tatagcaaag aattctgaaa actgaatgca caattgggtca   420
catgatcttt aatgacctgg cactaccatc ctgctattgg nttcttttat gctggcgaat   480
ccaggtatat tgggaacccg nagttttggt caanaatgaa aataggggac cccatanggg   540
tcttttctta                                     550

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<210> 7906

<211> 525

<212> DNA

<213> Homo sapiens

<400> 7906

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cagatgtgtt attttttatt gtigaataat attccattat atgaatacat cacaattttc   60
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aagctgctaa aaccattttt gtccaagtgt ttgtgtaaac atgtgattta aagttccatg   180
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tcgcatgcc caagagagga aagcgactca agttccgggc ccacgacgcc tgctccggcc   360
gagtgaccgt ggcggattac accgactcgg atctggcggt cgtgaggtct ggacgagtca   420
agaaagccgt aaccaacgct gttcggcagg aagtaaaatc tctttgnggc ttggaagcct   480
ntcanggtcc tgcaaangaa gctttttctn gggcttgtnna accct.                 525

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<210> 7907

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7907

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gccttgggtt tgccttacca tttattgaag gcatactatg tactaggtac atacatgac 60
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tcattgaagt tctgagagct taatccccgc tttaggctac acagtagtag ctggatttcc 180
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aaggaggctt tcaagccact ttccaaact gctgatcttg ggatgaatgg canggacctg 480
attgggggtan gggatgggtg gncacatggt ttctnggctg nanacttatt nccttccttt 540
ggaaa 545
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<210> 7908

<211> 547

<212> DNA

<213> Homo sapiens

<400> 7908

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agaacccgcc ccacaaccaa acattcagat gcttattaag gcaacaaaac aagtgcaga 180
cgggacaatt ttccaattc tagatctaata tgattaggct atgtctcatg aggaggctgt 240
acttgacctc taagctagca tctggaatac aatcttcagc cggcttaggg aaggtcggtg 300
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atagtagtat cgtcaggatc aattccgaag tgcagcttgc cgtccttggc ggctgcccag 360
 ggcatggagg tggaggcca ctttgccacc cagtctcctg ttttgctaac cacgatgagg 420
 ccacctaacc ctttaaccct tgacttcata taaccaaacg ataggtccga acctntttta 480
 ncggctttnc ttggctatgn ggnacaaggt gaggttancc nggttaacct taggaagctt 540
 tcccaag 547

<210> 7909

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7909

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 cgggcggtgg ccagcacitt cctcgggctg tggcgtgtgc acccggcctc cccagaggag 180
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 gaaccaataa ttccttgggg gttaatagct gttccccaag aaaagggttc tgtggtcaaa 300
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 cactttcgaa agttattgaa ccacaaaacc ctttttccca aagcattttg cangcttggg 480
 gtccatgggc accccttggg aaantgctt ncctaactgt cnatacnct tatgggaatg 540
 gnacctgcnt aaggca 556

<210> 7910

<211> 553

<212> DNA

<213> Homo sapiens

<400> 7910

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tacaggcaca tgccactatg cccaactagt ttttttttct attttttagta nanacggggt 180
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anaggggcgg cagcagtcct gatggtccaa tgagaccan aagctttcag gaaaacctta 420
atcccagtc cctttcagca ttatcttcta aagctgactc tttgnggac tcaaagtccc 480
ctttttggca agtcgtntnc catttgntgg aacctttccg actgggaatc cccatgtttt 540
tgatggcact ttn 553

<210> 7911

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7911

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atttcgaaac tggttgctta ggtcttgag ctctgtcact aagggtgcc tagctgttat 180
gtcatcagct aattccctgg acatttctcc agttgccaca tctgtaaaaa gttgctttgc 240
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ggaactggat ttgtttttac tgcattttat ggccacatgt gcaagtccta aggctctttg 360
aacaacttcc ttaaagtgtg taatatcttt ctcccaacaa ttggactggg tgtcacactt 420
gtatgccttt gagaagcctg gaatgccctt tcattttcat tangcttttc actctggcca 480
ttttcatata cgtgggcac cagcctccan aattctccat catttggcac tcttgaagca 540
ctctggccaa ataactccgg cagcttct 568

<210> 7912

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7912

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gggacccaaa atggctgtaa ttgcagaaag gatggagggg tacagtgtga tgggagggaa   60
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cgtcccagtt ccctcctagc aaagcanaaa tacaactcct ggccacctta cagggcanaag  180
gtgaggcgcc aacggaatag caaatgtcaa agtttcactt aagcccaatg gaaaggtagg  240
aggccttgcc ttcttgctcc tttttggctt tctcctgggc cttcatggct gcgtaatcct  300
gggccatggt ganaatgtat atatgctccc ggctgccaat ggccttnagc aggcanagga  360
gggcggctgc agcattccga gcaaaganag tgtcgaggcc atcaaacacc actcctcggt  420
agcagtcact cagcagcctc ctctccttcc ttcatggact gntctatggc accctgatgc  480
aaactnacan gccngatnc ctgggaaggt ggtgcttggt ggcccaagtt tcagcacaat  540
ggagtcatgc tnagcagctn ggttgtaaac ttggncccc                               579

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<210> 7913

<211> 609

<212> DNA

<213> Homo sapiens

<400> 7913

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acatttccat catctctgta aggtaccctg tgcaatttat agttaactcc catttccact  180
tctggcaacc actcacctca tgtctgtccc tacagatttg ctattctata catttttatt  240
attattctgc acatttcaca taaatgggaa catatactat gtggcctttt gtgcctggct  300
tcttgcatth agatcagtat ttcttaggtt caccatggtt gtggcatgca tcgatacttt  360
attccttttt atagctgaat gtgaccacag tatataccac ttggccattt cacctgctga  420

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tggacactac agatgcttcc atcggagcaa aacagactca tccctgctga aggacaatca 480
gagtcacccc cgagttatct ctgctgaaat catccctgct gagttaatcc ttgcttangg 540
ggccgngct nagtcattcc tngttggtca tgtctgttga agggcaatgc ttngcattc 600
ctgntgggg 609

<210> 7914

<211> 607

<212> DNA

<213> Homo sapiens

<400> 7914

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ttactttaga aacagtcaaa aacacaacag aatcaatcca gatttagaaa tgatgatttg 120
taacatacaa tattggtatg ctgaacaaga cagtttaaat gtatgattct ttttgtccct 180
tcacatttca ataattcaca ttgtttaaaa ctagtggttg ggactaaaga aaaggtcata 240
tctgaatcct ttccccttca gaaatctgtc acccttctgg gcagttacag aaatggcagc 300
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tattcttttt ctatgaaatt tatatttatg tggctatagg gcctggtcgt atgtcccacg 420
ccttttaaaa tctaaatttc taaaaacaga cactccgtaa gggcaaggag catacactgc 480
tatgacctca ctggactcag agcttaatgc tcttanggtat tcancaagag acatggattt 540
gaactttcag tagcacttca agctgntntn aaccaacctt tttagcacgg nagtgaaant 600
tttcaat 607

<210> 7915

<211> 599

<212> DNA

<213> Homo sapiens

<400> 7915

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 catatcttat agaaacatag ctagtacaag aacaaagtgt actaattaac attaccctt 180
 gcttccccag tcaaaaaagg ctatagagaa aaacacttta aattgtactc taatacaaat 240
 ttgttgcaaa attaaacttc aacttactca aagagttatt gtattgtaaa ctgcagaaaa 300
 tagaataggc attcaataaa tctgctcaca attaacaatt aagcaataga cacttgaata 360
 aatatagcat gtattactta ttgtttaagc cttacactta cgatgagcag atggtttatc 420
 actatatagt aacagatttt ttttactt taggagatcc atatccaata acggaagtag 480
 aagtctttaa cgaaaactga ttttagaaaa atatctcctt gggctgaact actatgggaa 540
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<210> 7916

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7916

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 caggatactg gatacaagat taatagtcag tttgtctcaa aatatgtcaa tgtgttctgt 180
 ctgaaaacat gcagagggct tggagtaatc atatcatttt acgaggtgct ttanaaaacc 240
 aagctacagg tcctgaatac attccaaaaa tcctaaataa ttaccaacag aagagagaac 300
 tnttgccagc cagtacactc aataaagaag tacaaggtg cagacaatgt aactttacca 360
 ggaagcttaa ggggtggccc agcttctcgg caggagtcag caggcctggc agcctccatg 420
 gctggcgctg ctgtgtggaa acagggccat ggtcttcttg agctcctggt agctccagtg 480
 catctgctcc acctcgntc tgtgtcgcgc ccgcacctgg ctnacttctg cacangntc 540
 antgggctta ccaagganct ggggttttct tn 572

<210> 7917

<211> 509

<212> DNA

<213> Homo sapiens

<400> 7917

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aaaacaaaa gcagtggaca ttattcctt aacttttgtg caagagtgt aagatgcatt 60
tgaaagaacc tgatggctag agcatcagcc atggctttca ggttggccta gtttacaatt 120
aggaaaagaa ggggggaaaa aggtaacttg cctagtccac atgaatgatg ttcttgcaa 180
acacagtgtt ttacaagttt caagctatat ttactaggg tcaagggaag acttcaaaaa 240
gccacataca gtacaattta aaattgtgtg aacatcctgc aaatgttagt gcaaagtaat 300
tatgtanact ctcaaacaa gactgtgctc ttggttccca ngtttggta atgttgctct 360
tttataatta caatcacaga agcttaactt accaaatagc aatgcctctg tgttttatgt 420
cctatgtacc aagggaatgt cacaaggttt ttnatnaaat gcagcttagt tcattnatna 480
ancanattct tattgaattt aacaatnaa 509

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<210> 7918

<211> 532

<212> DNA

<213> Homo sapiens

<400> 7918

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acttattcac tcaacaatca ttattgttt gtgtgcaagg cactgtgtta ggtgccaaaga 60
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taagagtgat taattgcata caaataattg taataccaga tagaatgtgg taagtgccat 180
gggagatact actataggaa gctttcttag ctcttaactt caaagaccag gtcaggtttt 240
gtcctactgt agtctgtggc aggcatgaaa aggagctga ggggacctgc taggctttga 300
tgaactgagc tgcattctgg atttcgttc ctcttctttc tcagccgagg ttacggtgat 360
tagcaagggc agttgctacc actgaaagga tagaaggaaa aaggcaaggg aaaatgatac 420
gtactaagat gcacatagga gcactcnata gtaagtctat ggaccgggcc ctggggtact 480

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gccattatan agggaanggg aanaggattg gttanggana nagaacactt gg

532

<210> 7919

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7919

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aagcattatg tattcaacac actgatncct gatagcatgt caggaaaaaa gaataggcaa 120
tgcagtttaa ggggggaaaa actganaagt cataactact ccaaagatgt gcaggaaacc 180
acaaaagaca tggacctgct tctactataa aaagaaaatg aagcacttct ctgggggttg 240
tataccaact gtttcagccc attgtagtct tgcctctttc agggcttttag ccactatttc 300
atttcatgga aaagcagaca tctcctaaca aacagagtga catttaccaa aataaagagg 360
gcttctcagt gagaagctta ataaagaaaa atatttacct atgctttgca caattttctt 420
tttttttttt tttganacgg tgtctcgctc tgctgccagg ctggagtgca gtnggccncg 480
atctcgctca ctgcagcctn caccgggccc gggttcacgc nattctcctg cctancctcc 540
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<210> 7920

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7920

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tcattggatt gtatttccat ttgttgaggc accggcaa ataaaaattt gttctaattg 180
tttctcaagc tgtacaaagc tccaaggtca aagctcccca gaatacagag gaatatatac 240

aagactgtct tctctgtgtt caccaaataat gggattcaca gtgagtcatt ttaataactc 300
 ctacgccacc ccctagccga cggttaattca tcccgccata taacctccat gtattggcat 360
 caggatcaaa aacttctatg gtcttcaagt atgttgtgcc atcaaacct cctactgcca 420
 tgagctgtcc attgaccact gcaggccaac tccactacgg cgtgatgtca tggccaccac 480
 tggagaccac tggttgggtc tggggttgna tctcttagca ctgntcaact ctgtagggca 540
 tctttanctt ctacagcnta gaacatgtcc tggnatn 577

<210> 7921

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7921

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 cccggctaata tttttgtatt ttttagtanag acgggggtttc actgtgttag ccaggctggt 180
 ctcgatctcc tgacctcatg atctgcccgc ctcggcctcc caaagtgtg ggattacagg 240
 cgtaagccac tgcgcccggc cggccatcag ctttaagata tcttctctga cagcagagca 300
 tccaaaagca gggaatccac cccttcctac aaggaggaggga ggcctggaca ggacttctct 360
 agacttctct aatctctctc tctctcacac acacacacac acacacacac gcgtgcacac 420
 acacacacac acacacactt catcctaaaa tgggcattaa gacagttgtg atcacaataa 480
 aaagttttgc ttgatattaa accattcttc ccataatntgc agaaaaatta gcaagggttaa 540
 taaaaagctt gntntgggat gag 563

<210> 7922

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7922

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 tggtaaaaaa cactgtacct gtttgttttt acttcaacgt ggctataaga aaatataaaa 180
 ttacattaca gcttgcattc tatttgtata gtactgtcct gctcaagatg gattaacagg 240
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 cttgtcaccg tatgtctctc catttatcaa tatttcatat ttgagaaga catgaacttt 360
 ttgaacaaag ataacagaaa atcattgtca atagttaatc taccagagag attcagaaac 420
 cttgcatact tggttttcag gtcttggttg agagttctaa caccgttgaa aaatctcaag 480
 agtaacctgg taatgatatc ttcattgaat taaaattaca ttttgcttta atctgatagt 540
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<210> 7923

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7923

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 tacagatatt tggttccttg atttatatgc atagaaagaa acagttgtca taactgtaaa 180
 aagcagtact taataagtac ttttaaataa ttggaacagt tttcctttta tattacaata 240
 ctacttattt attggtttgg aaactaggtc accctacatg atgttttgat ttttctcaaa 300
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 gattatatac cataatgatt ttcagacttc tttttataaa aaaggtatct ggagactctg 480
 aacaggcaca tgcatactca gggggaaggg aacaaaacat ggaggagtct gccaaagcac 540
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<210> 7924

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7924

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caatcactgc ctctggggtt caagcgattc tcctgcctca gcctcccaag tagctgggat   120
gacaggtgcc cgccaccatg cctggctaata tattgtattt ttagtagaga cagggttttg   180
ccatgttggc caggctggtc tcgaactcct gatctcaggt gatccacctg cctcggcctc   240
ccaaagtact gggattacag gcatgatcta aattctttat acccttcaag ggcaggaaac   300
cagtatctct gaaaagcttg tttgttttaa tacaattgaa catttcatct ttccccccac   360
agtaatcaaa gcaaacattt tatcattatt attcttggta tctcaaagta aattccagga   420
atgtaagaaa gtctgacttg gaaatattac atagaaaaag gctgaattaa cacattacat   480
tttttaagtt tttccttgna aagtatacat tgacatctac ttatctgata gcannactgc   540
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<210> 7925

<211> 579

<212> DNA

<213> Homo sapiens

<400> 7925

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gggctccagg gaagtggaga tgtaattctt acaacaacag ttctgatcat ggccatgggtg   180
atgactttcc aggtctctgt ttcaagtggg gccagaatgc aggagccggt gggcagccct   240
gaggggttgc cttggccgca gcctctgtgc acgctcttcc tgggtgtcctc ttaccggta   300
gctgtgcgct tgttcccgtg agaacagcct gcttccagag tgcccaggag tgctggtcag   360

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ggacagtgcc cgtgaggctg cagaggaagt ggggtccatg gccacccat cntccctcg 420
 cagcagccct ggccagtgtc atcctgggtg aaaaagggtt gcgcacagga taggaaggaa 480
 ccacagtnt gnttactggg cttacaaccg gttgcagcct gggttcttaa aatgganttg 540
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<210> 7926

<211> 587

<212> DNA

<213> Homo sapiens

<400> 7926

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 tacaggcatg tgccgtcaca tctggctaata tttgtactt tttagtagag atgaggtttt 180
 gccatgttgg ccaggttgggt ctcaaactcc tggcctcaag tgattcacct gccttagcct 240
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 gtccctacct tactatgcaa ctttggacaa gtccttttac ctcttgggcc tgagtttctt 480
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<210> 7927

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7927

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 ttttaagcaa ccaaggagtt agaactcaga tggttttctt ctttgtaaca gcaacaatga 180
 ccacggctct gtgccatggc aatcactgct gagtgtcttc tcctacaatt acacaggccc 240
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 ggtgcttgat cagcattcct tggatggggg aagtaattcc agatgaattt tcccaccttc 480
 ctgagtctca agtaggcaaa ttccttcagc atatcataat tgtaccgaan tgaaaaaatc 540
 tcatatggna attccttggt gcaaatttat tggcagct 578

<210> 7928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7928

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 cgtgtttttt gtttgtttgc ttgtttgtt ttttagatg gagtttcgct cttgttgccc 180
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 cagttttttt ttttttggtt ggtggttggg tgaantcttg gnttttttg agcttcctnt 540
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<210> 7929

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7929

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agacacaaag ttggatttat ttttacaaga tacaaaatgt aaacatggca aaataaatag   60
ttaaaacaag tgatgcagga tcccatttca tgctcatgat cccattaaag aattattttt  120
taaaatccat tcagttgcaa attcaagtgc aaaagcatga tgatgaatat ctactattca  180
agtaacagaa ataatatgga tgatacaaat aaactatttt acaaggtagt gattttccca  240
attttacaaa atatacatca tatatggatt taacatccaa tatactatag tccatttagg  300
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tgactgcaca ccatcagcac aggtcagagc cacgtgtttt angttatgtc acttccatag  420
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ctatgctgct gatggcactg ctgggaagta accttggcac tctgtcctac tggcagcact  540
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<210> 7930

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7930

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atttccttta tatggggtaa taatcagttc atgtagaaaa taagttatcg acatactttt  120
ttaaataaca gcctgggtat cttcagcttc acgaaacggg tgtaacagtt ttaatcggca  180
cgcttgagag aacctagcat tcaatctgag agcttggcac tcgcctcatg ttcagggcgt  240
gacgatgtat ctcttgcatc tgtctgatgc ggctcttctg ccacatcagg ttttgaggca  300
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atcnggtagg cttcttttccg atactggtta tcantatcat tactgntttt ttcagcctnc  480

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tataattgag acatcatntt ttgtaatanc aaaaggntgg ttcttttaan gcttaaggac 540
ttcttggagg caagctttca aggntcttat tn 572

<210> 7931

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7931

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ataaatagca tatgttttgg gaggtggtgg gggggcacag ggcaccagga gaggggaagat 120
tcgtgttttt acagctgaca tgctgcttgg gaaaaagtcc cagggaataa cagtttggat 180
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ggaagacgac acttacagaa gttattaaaa ttgccttga aaaacaaaat aaaaatatag 360
attagccagt gtgttcaagg agctcttttc ttgccctaga gggaaagcag angctaccct 420
gctaaggtag caggcagctg ggattcaaaa tgtcccanga tttgaangca tgccctctta 480
aaaatcactt ccatcaatgt attcacagca gaaccngtga cttgccangg tttgtgggga 540
tttaggaagg gcaatggggc ntttnttcc cccaaaaaga acaaaagg 588

<210> 7932

<211> 538

<212> DNA

<213> Homo sapiens

<400> 7932

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acacatcaag tactggtcca atcttatatc aatctattta caattaaaca gcaccatggt 120
tttcccacct aggttagtta aacatgcccga gagaattgtt attcaaagca tatgttcctt 180

taaaataaaa taaactctta aaaagagagc tcaaatcctc aacaaagaaa gaccttttac 240
 caatcgatat catagatatt gatgacatca ccaaactctgc ttaagaaaaa aacagtttta 300
 aacacttttt tccagttgac aaactttgag aagtgtgct attcgatgtg gcacacaaat 360
 gaacaaaaac tttgatgaca ggagcaatat actgatttac cctaatatct ncacctctaa 420
 acataaaaaa aatctccttt gggattaatg ctgnggncct cacttggaat tagattcaat 480
 catcagccaa atttaaatta gatntancnc natcntttta aaggatggct taaaaata 538

<210> 7933

<211> 598

<212> DNA

<213> Homo sapiens

<400> 7933

aaagttttga cacttacact ttactcatag attgggcagt tatacttcta tgaggcaact 60
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 cctgggaata aaatctccct ttgattaatg tttcccactt ttaatgcaaa gtgcaagagc 180
 aagggttcc aatggatgac acaggtggga aagtcataag ctcttcccc acatccccca 240
 acttcattcc ccacacacac cacagatagt ttatgagcta attctcaact ctcttggtgc 300
 acgtatccag gactctattg aattatttat gaagtcaggc ctcaattccc aatagtttaa 360
 agtaatgaaa aagaaagata tgaggaaata cattcaataa gcaaaaataa aagaactctg 420
 gaatctgaca tatttcatgt tatgaaagta atggctgaca taatgtcang ggcatttaaa 480
 ggtgagttag taacntnca aggaggatca gactgnttct ggccgngct ttccagaata 540
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<210> 7934

<211> 581

<212> DNA

<213> Homo sapiens

<400> 7934

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cacctgtaac actgacttta tttttaagtc tgaaaatgtc ttgggaaagt tttaaaaaa   60
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tattgcagct ctgtaaggac agactgttcc caaagctcca gccatggcag gaagggaagc  180
aaatcagtcc ctgtataaac catttaacca attgaatgta tcacatgttg ataaatacat  240
agaagcaggc cctagggcct acaaaaccag cccactccc aaccacaagg ttgaaagtct  300
tatggggcag aacattaaga ctccctttata aatatgaaaa tagattaatc aacaggaaaa  360
ggctctttgaa taggttagct aagagccatg accaccacgc tgccttgctg tccccttgca  420
tagaaatgta gtgacgtggt ctgaccatgc agtaagtgc aacagcaatt actcaaagt  480
cttanaatac tggcaagaag caccatcatat tcangtctgg gaaacagcca tgaccgttac  540
ggcctttgac aagttcctgg tccctcagaa cttattgccc a                        581

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<210> 7935

<211> 580

<212> DNA

<213> Homo sapiens

<400> 7935

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catgcacaca tatgtttatt gcagcactat tcacagtagc aaagacttag aaccaacca   60
aatgcccatac agtgacagac tgaataaaga aaatgtggca catctacacc gnggaatact  120
atgcagccat aaaaaaggat gagttcatgt cttttgcagg gacatggatg aagctggaaa  180
ccatcattct cagcaaacta acacaagaac agaaaacaaa atactgcatg ttctcactca  240
taagtgggag ttgaactatg agaacacatg gacacaggga ggggaacatc acacaccagg  300
gcctgtcagg gagttggggg ctagggggagg gatagcatta ggagaaatac ctaatgtaga  360
tgacagggtg atgggttcag caaaccacca tggcatgtgt atacctatgt acaaatctg  420
cacattctgc acatgtatcc cagaacttaa agtacaataa aaacaaacna aaaaaacagc  480
taattaagcc cttatattct gnaaatgnag gggttatattg ntgggacaaa ctnaaaaaca  540
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<210> 7936

<211> 577

<212> DNA

<213> Homo sapiens

<400> 7936

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actgtaataa aagcagcttg ttttctgctt gaacaatagc tctgagagca agaaggctgg 60
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agtggccggt ttcctggcag ctttgtaa at ggactctaac ctcagtggaa tctgggcccc 180
ggctggatca ggaggcgacc atatggcttt tcttgtttca cgtgaagaat ctgttgcgct 240
gagagcacca ggagcaggta gaagaccgg gcagccatcc tgcgggggct gagaggtagc 300
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actgcttcca gtgagagcag ctcgagctct gggggcagca ccaaaggcat ctccatgggc 420
acctcangga gttcaggcac cacggcaatg caggagcttc tggcgcttc acctcagcca 480
ggcccaccgt tcttctggtg ggatnagctg atccggactt cttctcttta nctggcttta 540
nggagactnt aaagacccat aagggaaca ctggctc 577
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<210> 7937

<211> 582

<212> DNA

<213> Homo sapiens

<400> 7937

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ggggagaaaa ttaaacctta tttattttta aagtcaaacc actaggaaaa tatatcacag 60
cctggaaaca gcaaacggac aggctatatt ataatttcaa gtaataagtt ggtgaaaatt 120
caacgaagtt gctatcaaaa caataaggtg ccatgctggg gcaggaacac tgccagctgc 180
acaagcccca ggcaaaaatg gtatttggtg atgggggctg tctctccttt gctctaaggg 240
agtcagctca tcctagccca agttgcttac ttttctccc ttgaatttcc tgttgccagg 300
ggtttgtctc aattgggctc tgtaattca gggggctaag taggcaatgc taggtgtagg 360
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ctttcattcc atatgttcta ataaaaccag gttttcccaa atccagtact tcattttactc 420
 tgttgtaate aagtagccaa ctgctcctct tttactgggc attcctagat ctagtatata 480
 tcacaatcaa aacccccctt ttttaaaggg gaaagtggta ctgcagaatg gctggcantt 540
 tgtacacaca ggcttanggg ccatcancca gtaatctgct tc 582

<210> 7938

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7938

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 tcttaaggat gtgttaccag gtggagaaaa ctaataaatt atacaatcta gcttcgctga 120
 aaaagcaaga tttcaatata tacttacaaa aatgaaaagt gctttttcat ggcaagggtta 180
 gatactgca aaagactgaa atagctcaac ttttccattt tctatttttt tccttggaac 240
 tacttgaaga agcactgttt ttcacaatca taataagagt aattaaacag ctagaagcaa 300
 atttagccac aatcctattc caacatacaa acatgtttat tacaacacag taattccttt 360
 aaataatttg tcaacataaa tatgtcaa atgggttttaa atcattttct tccctgttcc 420
 ccgacaaaaa aagtcctctg gcgctatgag ctatatattg ctgntcactt actgntgaat 480
 ccaaactagt gaaatgatac cgggtaacta ttacncagag cattgacact aanttgagg 540
 ggaataatga atanttaatg gacctccttt aagcnggaac ntatactttc atgggtgccc 600
 t 601

<210> 7939

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7939

agtttttaag gagattttatt tttcgtacac aagtgatcaa tttgtcacia tatgacaagt 60
tattgataac aagtatttta acttacaggt atgataaaag tctaacattt acaaaatggg 120
gatattacta tataaaaaat tgaaagtatt agtttttatg taaaatatta gtttcttcat 180
tctgatacag tgctaaactt aatgtaaagc caaacttcag gacctactct agacataaaa 240
taattttcat ttccatgtct ctagaatcta aaatgctaag taaattttct ctattacttt 300
tcgtcaaaat aacttaaagt attaaaagac aacctaataga cagtaataac atttttcttt 360
cctaaaaaat atttggtatc tgatttaaag acatgaataa cacaatagta acaacttaaa 420
gatcgacaag atatactaaa aatgatattt gggcatcata tctacataat aattgngaaa 480
cacctggttt cctaataact gagaaccatc agtaactttt tcataaaagg acttcatagc 540
tctaaatatg gaatcaacct tggaagccga acccttacat ggcaaacacc tacgggggta 600
n 601

<210> 7940

<211> 592

<212> DNA

<213> Homo sapiens

<400> 7940

gttttcatta tgtttaatgt aaatactatg gaaaacatgc ataattacta ggcaactcct 60
ttgtggaaaa aaaaagtctg catgcttcta aactctgcta catctgttct gtgtaaaaca 120
tttctcctga taattttgtg ttactttgtt caggctcttt gtagcagctg tgtactgcta 180
atgacttccc ttattagtca gctccagtac tttcttgggt ttgaagcata tagttagtaa 240
aaatttggct tttcagcaac gttgtattag gctaattgat gacgttttaa tccacggcca 300
aggtaggata agagtgttat ttctgctact gctatttttc caaagaagga taacttttaa 360
aatactagag ttcacaaata atttgtcaag actgtatata tgagatatga ccattagttg 420
ggctgttatt agggttattt cagcactgag tcttttagagt caatgcaccc tcacaattat 480
aaaatgaggc tataaggnc t ggaagcatat tgcaaatcat ggtagagatt atccttcnta 540
naaaatccct tcttcttta gactaagnaa atttttccn ggctnaagcc tc 592

<210> 7941

<211> 601

<212> DNA

<213> Homo sapiens

<400> 7941

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ctttgggttt tgttttgatt ctgtttgacc cacttaacta aaatgatact atagatcctt   60
caaaagcaga atcatgccag ttacacatct caaatccttt gatctactta ctctgtactt  120
taagaggtaa atttgagaat gaaaatggga gactccaatg caataacacc tacataagga  180
aaaacacaca taaacaccca cacatattcc ccagcctcaa aactaaagca aggtacacat  240
ttacatttcc aaaccccaaa gcctaaactg tccaggaaaa gattctagct ttgtgggctg  300
agtttatttt gcttctggtt ataaacaaat gtagtgtata cacacatctg tccaagaaat  360
cttgcacaaag gtggatttta catggggtat catgcacaag attaaaaaca agaccaaaag  420
gtggaaattt taaaagagga aaatataaag gctccaaggn ttaactgctc tggggtagaa  480
aagatcacat ctggtgactg aaggatccca gaaaggncca aaacgtccat aaatatacctt  540
ggnttcgnac tggcaaagta gtanttcta ccngaattcca actggggnaa aagtnccctgc  600
c                                                                 601

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<210> 7942

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7942

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agggtataaa aagacagatg caaccataca ttttaatttt aaaaatggaa tgtatcttac   60
ataaggattt tgtgaaaaat cttataccta tctgagtatt acagaagatg catatacctt  120
ccagagctca tggaggaaag agtgtataaa caattttgat aaggagttga aaaacaattt  180
gaaaatagtt taaaagaga gaatcaggag gcagaaaaag ctcaagagg catggtcttc  240
agaaattggt ctggaatgct gtttcacttg tatcgatgtc atgttcctgg ttcaatttct  300

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tgaactccac cacttggaag aagacgtgct caaggatatg tttggcatcc tgttggtcct 360
 ttggtagttt actgggttac tccaagaata tcaccacact tcctgacata aaattccagg 420
 tcttcttcag tacacttatt gggaatctga cccagcccgt gccttcttaa aggaaaaccg 480
 tttcatctaa atcaaaatag cttcngaagg aggaaggggg taactcccgg naacctggga 540
 nggaaaaacc caggctg 557

<210> 7943

<211> 506

<212> DNA

<213> Homo sapiens

<400> 7943

cagtgaagc aacatttcaa ttacaaattt taatgcctgt taaactacct atgggagaag 60
 ctgagaagtc ctaggcaaat gcactttggg gtatactaca gtgttccttc agtctgcaca 120
 aagattaagg taattttacag tcaatctgtg aatgaatgtt gagacaatgt tacattatgt 180
 gtctgtacaa ttaattgtcc ttaaagagat aaccagaatc agcttttcta ctgtattttc 240
 aacaaacctg actaaccggc acttttgctg ggagatgttt gtcaaagatg ctgtaagatt 300
 ctatacaatt aggaaatact cagctttaag agtattttct tatcttcact tttttagtta 360
 caggtgtttt gctcagagag cctattgcag tatgtttcca gaaatgcagt cccaaatgtg 420
 catactctat attggataca aataaaacaa aattatcagt agtataaatc ttacngcatn 480
 gnttgcnaaa antgcatgcn aangtc 506

<210> 7944

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7944

aattctgcc tttcctctta aaatttaggg tttaacaaag acaacagggc tgtttgccaa 60

atcgagcta ttaattcaca gcatagaaaa gtcaaagcta tagcaaaaaa ttgctaattct 120
gcacaacttt aaaaaatagt tcagtagatt tttgttataa aattcattta caggagggtta 180
ttcacatgta cttgtcaaat ttactcctga taattcaca aaacatacaa ctcaacaaac 240
tgtgcacaat aaatccaagg caaattatat acaaagaaac aaaacaagct ttttaagtagc 300
acatattcat ttgaaataac taatattgaa agaagacagg gaactttctt ttaatgccat 360
ggcaaagacg aagcgaagag ccacacttca caccttgtaa aaagaatagc cctgttcaac 420
aacgctgcgc tgacagccac atcaggaggg gccacgggtga acacaggaaa tggctttggc 480
aaatcttgtc cactggaacn agtgaaagtt caaagtaatn gggaagncca ctgganttcc 540
tntgaaangg cngcaaggaa 560

<210> 7945

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7945

acaaatacca aaagatttat tgtagacaat tttgttacac aattatacac attatgatac 60
acgtttgaaa cattaacaca cgtggagact gctaaatcat ttaatatcc ttttgcaaaa 120
agataatttc tttaggctgt gatactgca ataaccaatc tgttctcatt tggatcagat 180
ctttctccct ctgtcctgga gatctcacag ttcactttgc tgaagcaatc tatccacttc 240
cctatcgacc ttgcttatag cagttcaggt atagactatt tgagccttat atactaaact 300
gttaagccag tgcgtgccct atgccctgct gagaatagat tccttctgta cttgcagccc 360
tcagatgctg aattgatcaa tcaatttttg agacggggtc tcctctgtca ccagggtctg 420
agtgcagtgg tatgatcttg gcacactgna accttcggct tctgggtcaa ggggatcttc 480
ctggctnaag cttccgagta gctggnanta cnggnacaca ncaacatggc caagttaatt 540
tc 542

<210> 7946

<211> 516

<212> DNA

<213> Homo sapiens

<400> 7946

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aatgaggag atttaatgnc ttacattat acatttcaaa ggaacaaaac accctttatg   60
aattttctca tggagatagc atttacatca cagagctgtt gtgaaaataa aataagaatg  120
tacagcacac ctggaatata aaaaacatcc caataactta ctggagccc cgcagccatc  180
catccctcac atataaatac aatgaaccag atgaagatcc gtgtccgtgt ccatgacagc  240
aatccattca gaagatcaaa gataaatagt ctaatacacc aatttctgac atttgcttag  300
cactgcagga ctcatgaaga gctgccactc atattatctc atttaatccc tacaacaaaa  360
accaaggctc aaggagggtga gtccttgagc aaagaacagt aacagactcc acaggtttgc  420
aaaacagcca tatgacagag ggctgaggaa gcctatgata gtaggctgag gaagcncang  480
ttgnactgga gctntgaaan tgntctanca gcacga                               516

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<210> 7947

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7947

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catgactcag gaatgtatgg actttattta tacttctata taatttttat aattaaaatg   60
accctgtagt caataacaat ttaattgtac attaaaataa tgaagtgtag aattggcttg  120
taatacaaag gataaatgct gaaggtaata gatactttat cctgatgtga ctaatacata  180
ttatatgcct gtatcaaaac atgttatata ttgcataaat atatacacat ttggccaggt  240
gcagtggctc atgcctgttg tcccagaact ctgggaggcc gaggcaggca gatcatgagg  300
tcagaagatc gagaccatcc tggccaacat ggtgaaactc catctctact aaaaatacaa  360
aaattagcct ggtgtgatgg tggacgcctg taatcccagc tattcgggag gctgangcag  420
gagaatcact ttgaaccggg gaggtggggg ttgcagttag ccaagatcat gccactgtct  480
tcaanctggg tgacanaacc gagaattcat tttcaaaaaa aaccnaaca agttntngcc  540

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cctgtgggcc cannttcttg gg

562

<210> 7948

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7948

gagaccaagt ttcataaagt ttttacttgg aaaaaaaagt ttacaaaat atctttccaa 60
 agaaattttc ccatagagta caattaattc atgtagcttt cttccttaaa gattacagta 120
 tgacattcag aggggcgagg tttcttgaat agccaactag ccgcaaaacc tacaagagaa 180
 gtagattttt ttaaagtgcc tttaaaatgt gaaagcaagt aatgtaattg ttgaatctat 240
 ttgaaatttt aaaattttct ttaaaatggc ccatatggta tgcacaatat cacagctggc 300
 acaaaaactgc ctgtatttag tttgaaacac aaaaacaatg catatgaaca gtattctttg 360
 aaaagtaatt caaaatgctg ccactgcac ataaaggcaa acttagatna gagtggtgac 420
 agtattcaga gaattcacia aacaagctga tattaagta ttcagacngn taccttggat 480
 tttttcaaat ccncnggtna agggtaaaag aacttgtttg ccaagtactn aggan 535

<210> 7949

<211> 562

<212> DNA

<213> Homo sapiens

<400> 7949

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 tcagataaaa atattctctc agatgtctcc agataactgc taagtctaaa ttggtccttc 120
 aatgtcttat ttttattgtc ctctgaaat gtccatatac agttaagatg ttcccaaaag 180
 gatatttatc gtgtaaagga gcgtacatga cgacctctac cactgcctcc actaacaac 240
 tttcctcttg agcctccact gccgctattt gcactagccc aggaaggtcc aagtccecca 300

cgacctctag aagcacggtc ccgaggactt gggcggtaac ctgtagaact aaggggtcgt 360
aatggtggaa gagggcctct gttaaaattg ctctggcctc cacgactttc attgnaattt 420
cctcgaggag tattctgagc actccaactg gagcctcttg gtccttnccg acgactgnag 480
gttcnntttg aagcangtgg tgtgaaaaac cctattctga ctggggnaag cccccggcct 540
ctttattggc tggaaaacca cc 562

<210> 7950

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7950

acgaagtagc ttttattccc ttgggtgaat aagatgtgca catttaataa taaatttgct 60
tactaaaggt ccttttaggg gaaaacaacc ttaaaaatac agttctagtc cttgggcagt 120
gaacaaagaa aaaatgtgct tgagaaacac agtccaggtt aaaggaaaac tctcagatcg 180
gttaatgcag ttgaattttt gcttgagaat gtgagcaacg tatcagcaaa tacattcatt 240
cttgtgctac tcttcattat ttagcataga gctaccttag gtgtttctac acatgctcta 300
aaccaagagt aagttaaca tgtcagcagt gaggagtaga cathttctac tatagcacac 360
tgggagatgt ttactggtac tctaggtaga aatgactcca ttgtccacta agtttgggaa 420
ataaataata tggcaacatt gctactggag atacataata tcagaagcct aactattaag 480
agatttgatt aacgagactt aagcttaatn cagaantttc ccaaanttat gggnacattg 540
ggacatcatt tttcatagcc n 561

<210> 7951

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7951

aaagcattgc aatggtttat tcaattttat gagtctaaaa ggtaccaaca ctactgac 60
 tgagttttta gtgtgtaaaa cttttgagta gctatgggt aacctgattt ttaagatttc 120
 aaaataagct tgaaaaaaaa tcacatccat ttacatgca tccattcatt acttctaatt 180
 gattatacta cagataactt aagccttagt tctttctctt taaggttccc cccagtttta 240
 cgagaggcat ggacataatt agcttttttc ctttagtaaa aatgtgttat gtgctgtagc 300
 atacaccaga gcttctactt tccaatcagg caacacagac tccgagctgc ttttgTTTT 360
 ggtccctgga ggtgtatatg acaagttgac agaaacaaaa aggtgaagac cctgctccac 420
 ccagtataga gcctcttttc ttggnggct catggaaacc tattaacatg ccttcacata 480
 agtctctata tataaaacta tcaggcatta tgaaatnaat tgcagtacag ncactttgga 540
 naaagtgcta t 551

<210> 7952

<211> 548

<212> DNA

<213> Homo sapiens

<400> 7952

gcgattataa ccttgaagtt ttattttcaa tattctcggt ctggacaatt tcttaacagc 60
 tttaaaattc agtattttat ttattaacat taaatgcgt agaactcaa cagccagacc 120
 aaactgtaaa tacggaacta ggcacatctc aatgttctgt ctctgtgttt acattactgg 180
 ataagaaaat taagcattct tcaacttttc tatgggtctt aaaattcatg gaatatgtgc 240
 attttcctaa tgacccttta aaactaatac cacatatgaa atgttatcaa ggcagaaaaac 300
 tacattaatt tcgactttta taagatgtaa ctcatataac cactaagcta aagaataatc 360
 tgaagtctca agtgggcatg atgatcttat ttccatcaaa cactaaaaac tggctctgtg 420
 cagattgagc tctccttacc ttactgntc agttgagagg ctcttaattc tctaaaggta 480
 gacnaactat gcnaaactgn caattaaaca gnggatcatt aaattcctta taaaccttaa 540
 tgggnccc 548

<210> 7953

<211> 541

<212> DNA

<213> Homo sapiens

<400> 7953

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atttatttat ttatttattt gagaaggaga gttactctgt tgcccaggct ggactccgtc   60
tcaaaaaata aaaaataaaa taaaaataaa aaggcccga ggcgtctctga aacagacatt  120
cagtcacag aaagtcacct atgagttctt aagaaccaca acacatggca aacatgatata  180
cagaagtcac cttgtatacg ccagttcctt ctcttcacag ttttgtttct catttgaaca  240
tccaaagaca gttttgcgag ctgtgtgcag tcaccacagg ccagtgaggt cactgtcatt  300
gtgacaatag gtagttttca ggggcacaga ccttgigctg ggtgatggaa tctaagaccc  360
atttctcaga cagatacttg actgttgctt tcttctttcc gctgtagggc ccgatgacga  420
tgctggcctg gcgggggact tggctgacct ggccttcgna caggtggact agtcacagaa  480
cttgggcact ggggggcttg ttggcangcg aaacaacatt actggccttg ccggcaaaaa  540
g

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541

<210> 7954

<211> 545

<212> DNA

<213> Homo sapiens

<400> 7954

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acaaataactt tattttattg attatagtga aatgcctcaa aaaattccat tttagtcttt   60
gtaaagtcct acagttttaga tacacaaacc catgcatgtc tgcttaggca gaaggagcag  120
ggaattacta tttgttgaat gcctattagg tgctgtatta gttcttgtac tgctataaag  180
aatacctgag gctgggcaat ttataaagaa aagaggttta attggctcat agttccacag  240
gctgtacagg aggcatggca ggggaggcct caggaaactt acaatcatgg cagaagggtga  300
acaggaagca ggcacattga acattgctgg agcaggagga aaagtggggt ggggaggtgc  360
cacacacttt tagacaacca gatctcacga gaactctatc atgagaacag ctctaggagag  420

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acagtataa accattagaa accacccccca tgattcaatc accttccacc aggtccacct 480
tcaacattac agattacatt tcaacatgag aattggatgg ggatcngatn ccacnntttt 540
ccggg 545

<210> 7955

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7955

aaattttaaa aatttatctt tttctttttg ttgctgttga tttgttcttg agatggctac 60
aacaccagac agaacagtgc cctcatatct gatggctgtg aagggtgca ctcctttgaa 120
acattaagat ctgctttggg ctccctctt cgccctcacc ctccccttaa aatcaagtca 180
tttccacact ttttagtaac atactaaatg acacatcacc ccttgtagc cctgtaaaca 240
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cgcccccccc agttttggct cttctctcca aggcagacaa caaactgatg tggattggaa 420
gtggactgag agaatgaacg gggtcagggt tcanatatcc ataaattctg accctgcagg 480
tccccgggca taccaatgng accacgatng aaanngaac aagttccttg gntacttctt 540
ccttgg 546

<210> 7956

<211> 588

<212> DNA

<213> Homo sapiens

<400> 7956

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atcgtaaggg atgggattag caataaattt acataaatc aaccatacct actggaaaaa 180
gacacatgca tggaaattat taatgctata agaatctctt gatatgcagt ttgtattttt 240
gtacttaata taagcataat atattcatac ctacatatca ctccacaggg atttaaactt 300
taagactaca aagagaaatt tattggtaat ttaggagatt ttcaaggacc attctgagca 360
tgctcaattt tgtccttagg cacggctctt aaaacctaac caccttaca gttgtgactc 420
cactgtccaa aatgaagact ctgagacttt tgggcaaaag aaccatttta agtatttgac 480
atgagaaaga tgacaggatg aatccncatt ctctcanata atctgggaac canggaccag 540
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<210> 7957

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7957

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gtattggtat agcaataaaa tcaatcaaaa tattgatgta aaaacgtttc ttacagagta 180
gtagaggat atgattcaaa tgaaaagtac agaaggaccc ttgtatttta aaaaaataa 240
agatatttaa cctatgcttt aaaattaaat gaaccaatta aaaactatta ggacaacaaa 300
ttaaatacaa ttcatatcag aattaacagt aaataatatt tttctgaata tgcagcaaga 360
gtagaatcca aattatcctt atgtaaatca taagaaactt ataattaatt atagatgatc 420
tggaccacta tgcacatttg aaaaaaggga aaaaaacact aaatatacct tacaataaat 480
tctaccaggt cttaaatttt tatgagacgc tatgggggta aatgtatcat taaatgnata 540
ggttacccca tgacggtttc taatttatcc tttattnc 578

<210> 7958

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7958

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aagcagtcag aacgggtgga tataatacag aaccatttgt aatcaaaatc aatgtataca 120
tgctactcgt ttacagggtg atattcagtc gctgaacaaa tctccgttag gggcgctgtt 180
cgtgtgctgg gaacacacag gtcaatgaag agcagccaga aagccccaag ctctggaggc 240
ttccactctc gtgaatcagc accgcttgat catctccttc cacaggggca cagtcagcgg 300
cgatagctga ggctggcagc ctttgctggg tgagtcacag accagaagtt ccgtcgagtc 360
tgaagtttct ggaaggcggt gaagtttctc ctcttctctc tcttaaattt ttttaatttc 420
ttttccttcc ctcggtcaaa ctcttcgtcc cagtcacaa ccacggntc agtccggcct 480
gtctgtggc ttcaatagca tcctgactga ccgccgacat tttggcattc caggcagaac 540
tttttnccg nageccttct agatgagtnt ttgagcaatt cctggaccn 589
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<210> 7959

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7959

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tacactgggt tccagcatta caggcaacac tagatgtact ttttttaatg aataatgtaa 180
acttgagttt taaggcagcg ggtactaatg ctgcacacag acttagctcg gtgcccattt 240
cagaaacggg tcagtcagca ctcgaaacaa gaaactgtga ggggagaaaa ggggagccac 300
cagtgatcat tgacaaaaac gatccgtcaa agtgttttcc ctttcacacg cacaaaatga 360
aatatttgaa catttagaaa aacaaagcac ccatcccacc aacttcggcc tgttctttta 420
caaatatctc aaaatactgg taaataatag tgactgctag cagaattccg tgccagatcc 480
aatggncnccn agnangtcan ccngcactng aa 512
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<210> 7960

<211> 593

<212> DNA

<213> Homo sapiens

<400> 7960

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gttttttttt tttttttaag taaaagaaaa tttattatga aactaaagga ataaaagaat   60
gaccactcca taggcagaga aacgtcactt taaggttttg acgtcaattg atttttgtcc  120
aatcaataa ttactgcaat gattgaaaaa tgattattac taagtttggt ttcattgtct  180
caaggtctgc tgaactctgg atccaggctg tgtcaacagg gtagtgtggt gcctcctgta  240
cctgtcttgg cctcctacag tcctttttac ttattttggt ttttagaata gagacagggt  300
cttactatgt tgctcagact ggittcaaac tcctaggctc aagcaatctt ccagcctcag  360
cctcctaaag tgctgggatt acaggcatga gccaccacac ccggccaagt tctttaccat  420
cttcagaagg cttagcttgc acttttggaa gaagaataga ctcccaggaa gactgtgaga  480
gagatttggg gcccaaattg atattaacaa ataccctgaa cttgctggat tcaccatggt  540
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<210> 7961

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7961

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cattgtttta tagcatcata aaccccatat cactgctgtc attccaaaag ctgccaggac  120
actggaagtt atcaagtggg ccagccctgg aatacaggta gaattcacat gataggtgat  180
aagaaagcaa tgtctgtggg ccactctgat ccctcttttt accttggtag gtaaggtatg  240
atcttaagac tatatgtact gagtcctatt agtcagtga aaagattaaa gtgacaagtt  300
    
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atgtgctttg ttcctatagc tttgaagttc atccacctca ccagcaattg gaaggtctca 360
 ggtcttgcag gctctacca tgtgtaatcc tggggcaggt gtgaatcttg attttttaa 420
 gagattactc aaggagaga acaacagaaa cggaagccat gactactgcc ccaattctag 480
 attangttan anggtagaat aaattaacta atggggaatg gtantgggta gcagcanacc 540
 cnagagacag aattgngggg gttcctggac ttaaca 576

<210> 7962

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7962

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 ccagagcaaa cagcatcggt ttacttgggt taagtaggca tgcaaacac tcattataac 180
 ataattgcag aaataaaaat tatgagtact ggcaacctaa acttaacata taaaagaagc 240
 acttcataac taataaagta ttaaaaactt taaaacatgt catttaaaca atcccaccat 300
 caggaaaaca tgctttgaac cattttcaag aagtgatcat gtgaatgcat taatttactt 360
 gttttaaatt ttttgttgtt gttgttaatg cttatatatt ggaccaatgg aacacatttg 420
 tttggctggg ggttcagaca cacagtttgt ggtgtgaaag acattttctt tncctcgnac 480
 aataccggag gaccacagag caatccaatt ctaaactctga ccttataata ccatnttcca 540
 gttgaccaac cttataatgg aagatntctt anagctttcc anaaagcng 589

<210> 7963

<211> 578

<212> DNA

<213> Homo sapiens

<400> 7963

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 tgattgctaa acattgtcac tttgaatgtc aaactatttt taatctattg attttgatta 120
 aaaatcataa tacaacaga gctaaaatca cgctaacaaa ataaactaaa tatgaaaagt 180
 tgcatgaaa gggcatcaca ttattcttaa taggatcgtg tagaaacatt ccaatggcag 240
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 agacatcata tttgtatacc ctgagaaatc tgacactgaa gtccttactc tatgggtccac 420
 ttctccatta gagttagtga taaaggtcat tggcacctg ctgcccact taaactgaga 480
 ccaaacgctt ggtgccaaagg tctcaatctg gaacngtggt ctaagctcta tgnctttctg 540
 aggactatct ggctagctac tccggaatgg aactgnaa 578

<210> 7964

<211> 564

<212> DNA

<213> Homo sapiens

<400> 7964

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 gtaaaagaac ctcaggacag ccacatgctc catgccctgg ttgggggaag agggagagaa 180
 aagcgccatt gatagcttgg agctcgtana agggctctgaa gcccctgaac ctaacaccag 240
 agccacaagc cctgcccctg agggctcaca cactactaca caagtagaca cacataacac 300
 acacaagaca ttatgaaggc aacaccgaga ggcagtgggc aaggacatat tgacagaaaa 360
 aggaactgaa gttaagcagg ttagccagg agagacaagt ttttggctgc ggccccaaga 420
 gtccctcaaa tgtcccctaa atctgggctt ctgttgagca ccccgatctt tgcctgtgaa 480
 ccgggctctt tggcttttaa gcccangga gtggaaaacc aatcccgatg aagtcntgga 540
 caagnaggat ccctttttat tcaa 564

<210> 7965

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7965

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acaaaagatt attttattaa ttcaatTTTT gcataaaaga ctgttaaaag aacttgctaa 60
cttgaaaaca attttgagta tttatgatcg ttccaacctg aaaacacctg aaccttatag 120
aacagattgt gtaaagcagc cagggccaca ggagtgaaag aagatggaga cccgccgtct 180
ggtcattgata tgagaggcct ggacagtgac ctcacgaaca aaaagaaatg atcctcttca 240
gtccaaagtg tgtttgtgag actaatgact ccatgccctc acatggccac tcctctcaca 300
gcagacagct tcactccgct ccagccccgg tactgcggtc tgtggttaatt tacatgggaa 360
tgggatgaga tctagtagtt ttagatccaa cgcaattctg ggaagggttg gtaataaacc 420
aaaactcaat ctatgcagta tttaaaaaat aagtgagaag ttgtgacaac ttcgattctt 480
ttcaggangt gctggcttaa gatagaagaa agggatcagc tcttatctta gaagcccaga 540
cnccttaact naggggaagtg caatcaatgg ctaa 574

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<210> 7966

<211> 570

<212> DNA

<213> Homo sapiens

<400> 7966

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actttcaaag agcagaggaa cattttatat agtgaacaca tacacactgt ggcaatgtaa 60
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aatTTTTTgt cagtcagccc ccatccccat cccttatctt cgagtgcct taccaggaaa 180
cctggctttg gtggaaagga gagctgtggg gcttggggag cctgatgcct tttcttttgg 240
gaggaaaggc cacctgcaca atccacagga caggagtggc cagcagctat cctgagctga 300
ggctccagaa gagttcagat ccaagagagc aagggatgaa tggaaggaaa gtcccacca 360
ccttcatgtg taaagtgatt ggcatTTact caaatctaaa tctactctc tcctccctgc 420

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aatataccat tgagcatgtg ccaaataatg gtttgaacaa aagccaacac agatgtcaac 480
ctggggcact ttaacctag gaaccctac agncgagccc ttanccctaa tgacttaggc 540
ataggttaag cnggaaattt aanttgctn 570

<210> 7967

<211> 566

<212> DNA

<213> Homo sapiens

<400> 7967

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gggactcagg cagactccag ggaggaggag ggggttcac ggctgacgcc caggtcaccc 180
ccganagggc ctctcctccc agccacccag gggcanancg gaggcaggga cccaggctcc 240
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ctggggacna gtgtaancct gccccagna gggaagccct ttgccacttc caatgaaaag 480
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<210> 7968

<211> 535

<212> DNA

<213> Homo sapiens

<400> 7968

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atgggcgctg gcggccggag gggagcccta gggaggcagc gggggaggct gcgggtgcgc 120

agggaggcag gccggccgct cccggctgca ggaggagaag tttttttttt tttttggttt 180
 tgttttgtgg ttattttttt ttacaacttt aaatacggaa tataaataaa ttttacattt 240
 aaaaaataaa aggaaagccc ccaaaaatat aatcacccgac ttacaaaact gaaggaagca 300
 ggttttggaa ggcggaagg gggaaagtgc attangtggn aagggaggtg ggagctcaaa 360
 tcccacccca ggggggtcttg gggaactttt cccttctctc cccattccc agcccacgag 420
 ctggtttcct aggaggagcc accagaggtg gagcctcana aagggatcaa ngaatgggna 480
 aagtgttcan nccatggaag ggnttccggg caaaaagggc ttganccttc cttgg 535

<210> 7969

<211> 574

<212> DNA

<213> Homo sapiens

<400> 7969

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 tagaaagagg gaaaaggaag gcccaagaac tcttaaagag aggctgagaa caagaacaaa 180
 aaaacccaga agtgtaggta atacgtaaca gcgcagacag aaccgttgta ggccatgtat 240
 aataaataat gcatgcccc aatttcagtt aatcatataa tttcaacttg agttctaata 300
 ctggaaccag ccaaccactt gggcttcaac actgtactag atgtcagtag aatcgcttga 360
 tggaattaca gccttgttac agttgagatc aagagagggt gctttttttt tttccttctt 420
 ttattaaagc tatcattcca ggctttgatc aaagatccaa gaatatttgg tctaccaggc 480
 tggaatgaat gtggnttgga agtcagagta catttaaaag ctgcaccaa atttngtagc 540
 ccacaatctc aaaatttgga tcanccaaan gaga 574

<210> 7970

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7970

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ggctggagtg cagtgggacg atctgagctc gctgcaactt ctgcccctcc tccctccagg	120
ttcaagcaat tctcctgcct cagcctccca agtagctagg attacaggca cacgccacct	180
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gccctcacan gatgaagttt gagaactggg tatgaanttc ttctttaact gtcagtatga	480
attcancagt gaagccatna gggcctggac ttttcttga agggagactc ttntaactg	540
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<210> 7971

<211> 572

<212> DNA

<213> Homo sapiens

<400> 7971

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tatagctggg gcttggcgat tacaacacc caccagctgg tggagcaggc gcctccctgc	120
caggatgatg cttcaggaac tttctgggca caaagtgctt cttggtggac aatttttaaa	180
aacacacaga gccacgtggg tcacctattg tcaccaagag aaaaaagaac ctcaaaatca	240
gtgacgcgac aggaagaatt cggacctgtt ctttctgagg aagticttat ttttctgta	300
actgtatgac ggcatcacac cttcctcctg aacgtggggg ccatagtcac tgactccgcc	360
agcctccac cagtgtgctg gtgtaggagg agctgcagac gtcctcaagc agaagtcact	420
tctgcgtcct cagtggtaac tcctgtccct gctcaagtcc tncgcctccc cgcactgctt	480
ttcctttgaa aagcaggatg cttgccgnca tggncnaatt gaagctgtnc acaccaggca	540
caacggggat caacaanctt ttgcncccgt gn	572

<210> 7972

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7972

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cattgcccac ctcaaagtgc tgggattaca agtgtgagcc accacacca accaggttat  120
ttgaacattt ttaagtactg tattttctct attgtaatat tgactgtcat ctctgtgcag  180
gttttttagt ggttgctcta ggttgaaacg ctttgaattc ttaggtatct aagagtgagc  240
attttctttt ttgactgct atactctcac cagttgccag cttctcatat aaatattgta  300
aatgctctcg tttaggtaac tcagcttctg gagttgaggg aacttcaaaa tcagaagagc  360
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<210> 7973

<211> 568

<212> DNA

<213> Homo sapiens

<400> 7973

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catggtggac agaatgcgtt tatttctcca gtttggccta ttttaactcc tacatacatg   60
aacagccaat acaattaaag tagaaacaca atttttaata ttccttatca cagccatttg  120
aagctccttt ctgccccaaa ggtctagact gccagcagag gccctgagac aaaggcactg  180
ctataagatg cagactgtat catggcacag tgggaaagtc accatgtgca aaatccacgg  240
cttgccctgcc tctatgcctc agacaggaac aaatcatggg atggatctgg gatctataca  300

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acagctccat gaggcaggac aatcatatga ggTTTTatgc tgaattacac ccattttccc 360
aatgaggaca cataaaacct cccaaacatg tgagaagttt cagacccaaa tataataagt 420
gatgtatagg catgtgacct gcgaagtgag tttgtcaacc ttgtttcact tgagtgtgaa 480
aaatgcttta taattttgat aatcttacct ttagcagctt ttaagaaat aacttgctcc 540
aagggcccgg ccccatnggc ttatgcct 568

<210> 7974

<211> 563

<212> DNA

<213> Homo sapiens

<400> 7974

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atctaaatat cctaacagaa atgctgctga atttagccca ggtgaaactt ctgaaagctc 180
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atgtggaggg gtctgtgcag tctggtgtga gtgcatctcc aggangtctt gggaaacact 480
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<210> 7975

<211> 586

<212> DNA

<213> Homo sapiens

<400> 7975

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 tgactataca taattgggtt ttttcctgac ccttggaatg ttagtttcat gtaacttttt 180
 aaaaaattaa aacattgcag actaaatgta ctgataagta cataactgaac acatttaatt 240
 accacagtaa ttaaaaagtc ctgatcttta cttcttaaga tgaaaattca ttaacttgca 300
 atctctggga tttctctatt atccacaatg agagtatgaa taatcccttc tttccgcttc 360
 ccactactga cagcctttat gtaacagtca tggttccga tactgaagtg agtttcaagt 420
 cccatcatct acaaactcac ccgctgctcc aattttttac cattgaccat acgtccatag 480
 catctttttc caaaacaatt ctaaggcttc accatcctgg nggtaatanc ccaagantgg 540
 ggggtttgaa ctggcctcat atacttcttg agacttttcc ataatt 586

<210> 7976

<211> 501

<212> DNA

<213> Homo sapiens

<400> 7976

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 taaaggatca ttgtattttt aaaaatgtca gcttcatcac atgatgttcc agagatctga 180
 ccccaaaagc ttctcaagtt ttactatcca tagtgctcctt atttgtaact gagaccatc 240
 cgttattttc catctgaagc ttcttcagca gtttataaca aagtgaaga agttggacta 300
 agagagccat catggatctt gncttcgtaa tacacttgtc aacctttaga aatactntat 360
 tctgcaaaga agtcttagtt actgtctgga gctggtggca tanaggaatt agcttggtat 420
 ttccaggaga ancataagct tgnccatcngc tttcaactgn ttttgaaaaa gcttgnacnc 480
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<210> 7977

<211> 584

<212> DNA

<213> Homo sapiens

<400> 7977

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aacaactgtc tcttagaaat aaaagttatg tgatttcttg ctaaaagcag ataaataaat 180
gagcagacaa ctaagatcac ttcacgcat gccagagctg tctgtccaag aatgcaacca 240
agcaaaaata attttgtctt caaaataaca gaaaaacata ttttttgttt gtttaaagca 300
tagaagtact attattaagc acaaaaataa aaaaacgttt taggtagttt gaactacaat 360
ttaaaactga attatataac aggtgccatc tagtggtata aattaaaact gcacagaatt 420
ataactaatg tgtagttatt aaaagctaaa ttatatccaa agcaattcag ngatgtcatt 480
gtcacaatt caaacttttc ctgaatctgg atgcctgnct ggtaaagac attactattc 540
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<210> 7978

<211> 589

<212> DNA

<213> Homo sapiens

<400> 7978

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gtgaactttg atgatgttct tacttgcat tactaaaaat ctgagaaaga ctgtaatcag 180
tctctaaata attatcttgc gtaaagagaa aagtagagca caatatatat atatcacaaa 240
ccaaatcaca ctctctgtaa cattacaaca tggaatttac ttaatcaaaa ataaaagcaa 300
actggctgaa gaaggctgta tcattttttt ctcaatatta cgctaatttc tatttttggc 360
atgaattatt aaccttttcc attagtaggc aaatgtgctc tgcaaattct cggatggcac 420
cacggccacc attacatttg caaatgtatc caacagcctt ctgggcagta gaacaggcat 480
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cagcaggagc cgccacttan gccacttct tttagcactc ttcacagac acttcatttt 540
ccagaaatgn cacttntttt cangacaggg cttttctttc ttcantcan 589

<210> 7979

<211> 561

<212> DNA

<213> Homo sapiens

<400> 7979

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acaactatac tttcaccatc actgtatctg tagcaggtat cgtacagcag gtgcttttaa 180
aacagttgtt gaatgaatga ttactgttaa tatcttgcaa acatcctttt tggctttcag 240
accaaaaaacg aatacataaa taaatccttt ctctgggttg tttcacctct aaaccagaag 300
agctcagtaa agccaccaga gactaaagct gttaggacaa tatcaaactc cttacattgt 360
aatatgtttc acaatgacag ttgatatctg atgcctatgg aatataagga aacaataaca 420
tttaatccat cattctgata ggcacaatat caanggtggc tcaattttga gcaatatcaa 480
gaaggctgca aaacagtnca cagtacttta actnaagcca gaatggcttc ggcacctggg 540
aaattggctt gcctcctnan c 561

<210> 7980

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7980

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ctgttttgca gtctccccg taaaggga aaacatgata gcgatacttt ctaattttaa 180

ggcgtatacc aatcacatgg ggatttggtta agatgcaaat tctgagtcac agatctgggg 240
 ctaagccagg gattctgtgc ttctaacatg cttcctgggt gataccgagg ctgcttgtct 300
 gcagaccaca cattgcatag taaggcccca gaacatcaaa tattcatctg aacaaagtaa 360
 tataaatatc ctcaggtatt tcctcctctt acacactgta ttcccagctt caaggcctgt 420
 agttcttttt tctcanaggg cctggaattg gaaaagagat gaggaattaa gaagatcaca 480
 gcggngctgag ctgcaaatcc tgcctangag cacaccgctc cnttganngt caattctctt 540
 caacaatttg ncnc 555

<210> 7981

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7981

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 aagaaatcag aaagcaagta tccacataca aatgtataat agtgaaacat gatagaaatg 180
 actcaagttg tggtagctca aatcattagg ctactataga aataaaacca gtatcttgta 240
 ttaaaaattc caattcatta ccctaagcca ttccatgcct tctacttggt accatcgcat 300
 cactcctcca gtgaagtgtt ttggttggtg aaaaggtact ggctgacat tacacttccg 360
 gactgggtca aaaaagaatt tagtattctg cctaaccgtt tcagacaatc tatctttaat 420
 tatactattc gaatctttat ttttctgaag atcttccaca cagagattan tagangagga 480
 gttttcatnc tcattctcctt ttaatttttt annccagcc aaaattncta agagggtggg 540
 gaaaca 546

<210> 7982

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7982

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catagttcat agtttattac aaatgcatat tatccaactc agtagaaatc catgtacccc 60
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atattaaata tatacatatt ttgagacagg gtctcgctgt caccagaggc ggagtgacagt 180
ggcacaatct cagctcactg caacctctgc ctcccagcct caagagatcc tcccacctca 240
tccttctgag tagctgggac tacatgcgca tgccaccaca ccagctatt atttttatit 300
ctttttgtan agacaagggc tcactatggt tctcaggctg gtcttgaact cctgggtctca 360
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tggcctgatt atctgntttt tgaatagtga ccctaagtng cttttccaag tccagtactt 480
ttgataaaan tttttagcaa gggcttcac tanggccac ttctgggcat aatataattt 540
cttnccaang 550

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<210> 7983

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7983

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aaatcaaacc caaaccacta ctgtcctaag cattatgggt cacagaatca agtgaaatgt 60
atggcatttt ttccttctct ccatacaagg gtactctgat caagagctag tctatcaact 120
attgatcaag catttataat gacaagagt taagagtaac taactgcatg gttacaaagt 180
atgttatata aggtccaggg gatitccccc aacagtgtag aactgattgg aggataatag 240
taaggttctt gaattgggga aattccattc aaatgataat cctcaccagt ccatggagct 300
tttaagcccc taagcagcca taaacaaaag ccacttgac aaagaaatgg tatgcttggt 360
taccatagga catctcactc ctctggcctc attgcttaga tccttccttg aactcagagg 420
ttctaaagtt acccatactt tctaataaag aagaaaatta aagtcaaaac tgngtgaaaa 480
tcaggccaaa aagtctaaaa atcnccaaaa tgggggnatn ccccttttaa ccacnggata 540
gggatanttt cttgnc 556

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<210> 7984

<211> 559

<212> DNA

<213> Homo sapiens

<400> 7984

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gagaagaata aggtacttta ttcttctgtg gcagggaacc caacacttgg gtttacgttg   60
cagggcaaca cctgtgatga acaaaacaca tggtagcgat agcccattca tgaaaaagcc  120
cattcatgaa aaactaacag ctattctttt cacagggata gtcaaaaaat gagttgaagg  180
gaaaaaagta tctccagttg gagccaaaac agccatctct agtttgaaaa tacactcaac  240
aaaatgttgg tgattagaga taacaggaac cgggcaaggg aggaattttt acatacgttc  300
aagcttttca ctttgcagcc acactctgat tttatcaaaa ttcctatcca tccaaccgat  360
gttttcttca atggtttcaa ttgtctgttg gacacaacgg agctgagaac cattttcttt  420
caaagagctg aagaatcctt ttacctcttc aagccgggtc ttgtggagaa ttgatttggg  480
gnaccatta ccatggtggc tatgggaaga tgaaccagg ttcaaacttt tggccaagtt  540
tggtncngt ttttctca                                     559
    
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<210> 7985

<211> 551

<212> DNA

<213> Homo sapiens

<400> 7985

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gtatttgcag gacaagtaca actgaaccaa caaatttatt tagttagtgc tgataaagac   60
agcagccttg agagacaagc agtaattacc tggtctactt aatgatgcc tttgttatat  120
tttacaggca aaaagaatga ttcctcagca gtcattgtga aattttgtgg gccacaagta  180
ttgtgcacac atgatacctg atttagagtc aacctgatgt ccattatagc tgtggaaagg  240
cagcaggcag ttgtgtcgct cttcacaata aggaacacat cttgctttca gcatgtgaga  300
    
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ggaacaaaag cattgatgta aatgtgcctc aaagtgagaa ctgaaaacat taacataaaa 360
 taaaaaagtc aaataagact aagttcttac aactacctat aaaaattgaa ttattacaac 420
 taaagcagca aatcaaaaaca tctgctgang gtttctggta gaacaaccac caaattagtt 480
 ggggccatgt tcaataagta ctancattgc caaacttaat ccaaatingga aatggaaagg 540
 cnttatggaa a 551

<210> 7986

<211> 556

<212> DNA

<213> Homo sapiens

<400> 7986

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 acaaaattga atactcaatg agtaaaatat gaacacagag aactacagaa aatcagaaaa 180
 ctggaaataa gaacagaaat attttaaata ttggaaaaac agaaattatg gaggtaaaaa 240
 atataaaaaa taacagaaat cttttaaaaa gtgatgtaaa aatgaagaag ctgaacaaac 300
 aaactagaat acaaagatat ttatatcaaa cacatatgta agcacaattt taaaagtcac 360
 agaaaagaga atctcgggag ctgcaagata aaagtgatgt gttggctggg cgcggtagct 420
 caagcttгна atcccggcac tttgggaanc tgaagtgggt gaatccctga aggcaaggag 480
 atcgagantt ggctgaccac atngngaaaa cctggctttc ttaaaatcca acnttacttg 540
 gggggggggc tnatnc 556

<210> 7987

<211> 555

<212> DNA

<213> Homo sapiens

<400> 7987

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cttcacattt agttgtgaat tttctgttcc atcagaatat ggtccactgg attcctccat 120
catttcaaca gtttccaaac caggcaacag gagcagaaat tttgtttgg cttgtgttag 180
tactggtttt aactcttcag gataaaccaa catcatcact ttggcaaaag tggcattcca 240
gaactgagca ctctgttttc gaatctgttt attcttgtgc agaaatatta tgcataatag 300
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agcaataatt tctcccagta gcttttctaa cttgttgttc agacaactat atactttagg 420
aacttcatca agctttgagt ttccataaaa taatgccaga ggtcttggtg aagttgcaaa 480
tatttttcgg atcatagaag gcaagaaata tgccccaggt ccctggnaat aatggccgtg 540
aatggagttg cccan 555

<210> 7988

<211> 549

<212> DNA

<213> Homo sapiens

<400> 7988

agagttgtga gtgaattgca tttttattta cgtttaagag tctctctccc tccttgtgtt 60
ctagtctgtg aatggctcac acttggactt agtgtaggct cctatgggag gagcgggagg 120
tagtgagaat cttcatcaaa tggagtaaca tgacccaaat ctctagaggt ttcataattt 180
tgctcttgct tctaaaaaca taatcatctc ttatgggggtg ttatgtgctt tgtatcctga 240
aattttccac ttgctgcttc ttggtgtgag gcgagaaatg ccaccacgtg gcactgcagg 300
aggagactgg tggaagccac agggctaggc cttcacttcc cagtacact gttcccaatt 360
ccctccagga taagctgaga ctctcagga tgtggttctg cagcagatga ggtgcgaaca 420
aagcctgctc tgccctgggc acccaggatg gcactgagtt ctaaaaggca aanggtatgt 480
ggtgaagggc caagcttaag gcctggtgtg ggacccttat tggcnnaaac ccnntttggg 540
gcccgtgna 549

<210> 7989

<211> 552

<212> DNA

<213> Homo sapiens

<400> 7989

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gctgaagata aatgtggctc ttttattaat gcataaaaag aagatgtttc gaaatgtgag   60
ttgcagtcag gctggaaaga aaggaacagg gatgtcccaa tacctgaata ggagaggcag  120
cccagagtgt cgatataaac accctttttg aatgaatatt aaattcatcc tgctaagtgt  180
taataggaga atttgctttg gctaaaaact ggggtgtttt ctaccagaga cttgctggct  240
ggtcactgtg gaccctgggc atgagaacct cttttaagat tgggttcaca gtagctacag  300
aaacaaattg aagactgagc agagctgcac cccgaaagca acggatgcta ctatggtaac  360
tcaggattgt acacaatcct tgagaaacca tatecttcct cagataaatg tcaagggact  420
ttcctaagaa atagatacag tagagattta tttaggaaaa aacaatagct ttcaaatgng  480
ctatcccctt accctgggag tagcanaata ancttcgagt attaccatta attggcctgg  540
cctggnaccn nt                                     552

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<210> 7990

<211> 543

<212> DNA

<213> Homo sapiens

<400> 7990

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gatctgctgg ctcagggcc aatgtttaat ttgcttctcc aaagtcgttc atcttcaaaa   60
gtctgattct gggaaactga tgccactagc ctaaaagccc actgaccatg tagtgtgcat  120
cagtttcctc ttgtccagta agcatttata caacagaagc taagataaca tctacagggtg  180
ttctctcttt acttctgaca gtcacctgca tggtcactcc atcggctaag gccagcctgg  240
acctcaccaa taaatcatag ccacctctga atatacctgc cagatagagc gaatgggaat  300
tcttgttctc aggtacttta tcggacctct cacatggctg catgcccaga aatgtgatga  360
tattgttgac agcctcttca agggttttgg tagaactgag ggcaaagggt tcctctttct  420

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caaaggtatc tcccacctct tcccaagcag cagcaaagtt aggcttcagt actttctgaa 480
tatggtcaga cccagcactt tgagactttc agccatactc atcatatacc catcctattg 540
gga 543

<210> 7991

<211> 542

<212> DNA

<213> Homo sapiens

<400> 7991

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tacaaaatac tgtcaatttc tactgggcca acacagtagc cactgcaatg tttctccttc 120
ttccggagct ttcctcccat agtctcacat gtactcctgg cacagccaca ataccagtct 180
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cgggtggccc ttggggcaag tcatcaggct ttatgggcca ggagggtggt cagcttgatc 420
ttgccatcca tggaggcggt gaagcaggtc ccacagtcca tggcagtgt tcaatcacng 480
ngaccacaag ggctttgggg ggcacctaag nttanacaag ttttccaaac cttttaatgc 540
cc 542

<210> 7992

<211> 546

<212> DNA

<213> Homo sapiens

<400> 7992

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ttgaacaaac catgagcaga cagctaacta catgttatgt ttctcttagt agtttttaggg 180
 tctgcccagt aatcaagaaa ttttacttct ccagaatata tgaacatggg aaccaaagaa 240
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 agatgttctc cacatctaca atgtgcatta acaaaattaa tgcagataag accttcactc 360
 caaccccaaa gatcttacct gggttaatact attttccaaa atcagcagaa caagctgcag 420
 ttactttctt tagacattta gctttggaac tttgaatttc aaaggaaaan tgggtataaga 480
 aagctaggcc atatatattag ccattgnanc cctcntttac ctttgggaac atccggggga 540
 tnaatn 546

<210> 7993

<211> 531

<212> DNA

<213> Homo sapiens

<400> 7993

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 cacatgccac gcacatatcc aagctccaac ggtgacaaat caaacacctg ttttccccca 180
 gcctgagggg cagctggtag gaggtggttc agaggtgggg ctccaggatg ggctctaata 240
 gcagcagcct tgtctctccc tgccccctgc cctgccccag ggggtcaaagg gagctgggag 300
 gggcgccctag gaggttggcg gcaactcttc cccactctgc cgcagacgct tcttggctct 360
 gatctcattc atagcctctt caatggagcg tgtgtccctc ttattggcca cgggcacaca 420
 agccgtaggt cttattggcc tgtaacatgt gggctgcgtc ttttggctgn tnccttgneg 480
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<210> 7994

<211> 512

<212> DNA

<213> Homo sapiens

<400> 7994

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ggttgcaaca tgtttaattc ctgctgttca cactggacac tgcatcatac tagtgtcggc 60
ccctgagggc accccttcct cgcctgcaca aaggaggacg agagatgaac attcagaggc 120
agaaaagggc aataaaaaaa gagctgtgta tgtgacctcc aactactcag aggtggggga 180
aaacagcccc atctgtcttg cactaaaagg ctcaccaagg gcaggtgagg ggcaaagtgt 240
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cgacgggctg gatgaggagg cccaagagg gcatatgctc agggtgccag ccggctgctt 360
ttccttgta cagccttgca aggaagctgt gaggccagga cactaggcca gtggcatcca 420
cactgcgtcc ttcaggaagc caggcctntg ngcctcattc ttcaggaagg aaaaccangg 480
ccccccgag cttttnccan tngcaggaag tn 512

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<210> 7995

<211> 557

<212> DNA

<213> Homo sapiens

<400> 7995

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cacaaggcac gccatTTTT ctttatgagg aaattcagtc tggtcacatt gtcagaaaaa 60
aaatctacca aaactaaata gtttctatat ttttttcatt tacaatctct gaatacaatg 120
atctacactt catgaaatgt caccctcag tatccgtgga tgcttggttc caggaccgcc 180
ctccgatacc aatatctgca gatgctcaag ttctgatata aaaatggcac agtattttgca 240
tataacctag gcacatcttc ctgtatactt gctaaatcat ctctagattg cttataacac 300
ctaatacaat gtaagcacta tgtaaatagt tgttatactg tattggTTTT taaatttgta 360
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ggtggctcac gcttgtaatc ccagcacctt gggaggccaa agcgggcgga tcacgaagtc 480
aggagatcga gaccncngtg naacccccgnn ttacttaaaa tccaaaaant anccggcctt 540
ggtggcggcc ccttgaa 557

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<210> 7996

<211> 550

<212> DNA

<213> Homo sapiens

<400> 7996

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tctttgaaag ttttcatacc atttcagaac cacatttgcc ggaatgaaca tttcagatgg 120
gcttggtgtc atctgggcct gagagacagc aaatgatgaa gcaaaattgt agaaattgtc 180
caacatcttt tgtgtgaact gagtgaatga gtcaactgag gatacagcag cattacctac 240
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tggagttcgg acaatattca tggctccaaa aggatgttgg cttccttctc cagatttaag 360
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tactggcatt ccatttgaat caggataaga aaagttgacn gatccttcca ttccctnang 480
aaatgggaat ggtncagca ttaaaacccc cacctnggtg gaaccttcat natccgnag 540
gccaaaccaa 550
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<210> 7997

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7997

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cattatcaaa agcttagaaa acttgtaaac ctctgggcct gtctctgggc actaggagag 180
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ggccttctag tccaagagag ggctggctcg cttggagttc agtgagctgc acgcctgtcc 300
cagtgtagacc atgtgatggg ggagggggccc tagcacttgc cctggccttg tgcagctgct 360
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cttgccccca gcagcctccg acagaagagc aaggcaccta tagctgttgc tttccctgca 420
gctccctggc ctcaactcca tgtgcatgtg tgaaggccac caccttttct gggcgtaccc 480
ggaacctanc ctggnccna ccttttttaa aagccagggt aacaaggctn agggcttaaa 540
ccggggtcaa anggccttnt 560

<210> 7998

<211> 560

<212> DNA

<213> Homo sapiens

<400> 7998

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caactctgtt ctttcacaaa attgtttggc ttctctgggt ctcttgagac tccgtataaa 180
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ctgccgcggc gtgcagtgga gagcgcttat tctggtgctc cattttgaag ttgggggtcaa 420
ttccgtccac cagcatgagg agcaccttct gaagctnccc ttgcctggcc ggaaaaatac 480
agctgctttg ggtggaaacc aaacttcttg gggttttncn aatcnanggc catgaaagcg 540
ctttccaagg ttnccttncng 560

<210> 7999

<211> 576

<212> DNA

<213> Homo sapiens

<400> 7999

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 cattgaagtt ctgagagctt aatccccgct ttaggctaca cagtagtagc tggatttcct 180
 ggcatcagaa ccctcaccta ggctgcctct gagcatggct tctgtgtccc agtctcaatt 240
 tccatgaagt ttcaggctct cctgttcccc cgcatttgta gtcactcttg gtgactggga 300
 acaaagggt agagcgtgag ctgaaactga gacagggagt ggcaggcagg cagtggggag 360
 agaaactttt ctcacatcca cccatgtgaa gaagatggac aaaaggggtg ggtctttctg 420
 gagggaggct tncaagccac tttcccaaga atgctgatct tgggatgaaa tggccangga 480
 cctgatttgg ggtaaagggg atggggtngg ncacattggn tttctggggc ttnaaacttt 540
 atttcccctt cctttgggga aaaaaaagg ggaaan 576

<210> 8000

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8000

agtataaaaa aatggaatca ttttatttaa atcccccaaa taccagagat gaagtaaadc 60
 atcttttatt ttcactttac atttggttat catgagacat gcaaactcct ccaattttta 120
 tgagaacagt gtttttgtgt ctttttatca catatccact taatattagg tgtaatatgt 180
 ctaagtcgga ttcgcatatg aggtgcagca tcaagtcctt tcctatattt tgtttttggt 240
 gcagcgtaat atgaaaaccc cgtttcacac aggtgcattg tagcaaaagg aagaagtaca 300
 cgcactgcac gccttgcaat gcttgggtat tcctgaatta ggctactcca aaaatcattt 360
 agtgaaagtt cactaaaatt ttgcttcact tgagaatcag atggttaaat caatcaggct 420
 ctcataagtc ccgggctact aaatgaagct gggttaacag taactgnaaa tggatttcta 480
 acccaagcat tattggcatt tggtagga aagtatttta accagagtac gcgcaaaccc 540
 cntaagnnc tgacaatggn attgnaa 567

<210> 8001

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8001

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ggttcaggtt gtcctttattg atatgttcac tcaccagaga ttctacattc tacgtaaaag 60
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ccaaatgttg gcccatgcta aattatatca aaagaccaa catccaagaa aggcaggaat 180
tcaaagattt cagaagataa aaatgcttga ttgggtccct ggcatgcaac cagcccatca 240
acccctcac tgccctctgg caggaccag aagatgagct cccttcttgc cacgagaaat 300
acattcatga ggctctgctg attttctct ctaggcctgg gaggtgctt gaaagagctg 360
ctgtgaacgt gggctccctg atctcagcaa cagagataga cagaaggaac aaaatagggc 420
gctcatcgta agggataggg catggaaacc agacctcgag ctgtgggtcc caggaatgaa 480
aaaaggcnga cgcccctaag atatnggcta antatgncc ttacttaaga antttggggc 540
caacaagttt tngttnaggg cc 562

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<210> 8002

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8002

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gtttgtagaa gctttattca taattgccat aacttaaaag caaccaagat gtccttcagt 60
agaataatgg ataaagtgtg gtacatccat tctggctggg catggtggct catgcttgta 120
atcccagcac tttgggaggc cagtgcagga ggactgcttg aaccaggag ttcaagacca 180
gcctgggcaa catagcaaga ctccattcta caaaaaattt aaaaaatcag ccacacatgg 240
tggcaagcac ctgtagtccc agctgttcag gaggtgagg tgggagggtc acttaagccc 300
cagaggtcaa ggctgcaagt gagccatgat catgccattg cactccagcc tggggataga 360
acaagaacct gtctcaaaaa aaaaaaatta caaaaaaaaa aaaaaaaaaa gtatgctaca 420
taaatacaat gggatattag tggttaagaag aaataaggtn tgaaacttnt gaagatntnt 480

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ggaggcccct aaatgcntat tagtaagtga gaaaagccng tgtgaaaggc ccatactatn 540
tgaattccag ttt 553

<210> 8003

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8003

ctctgtaaca gatttaatta tttgttatga aagagatacc gagaacgtgg attcctgtgt 60
gaagtgcagg gacagccttt acagaatccc catctgctga aagatgacac ctacctgac 120
ctcctgaagg aacctctcca cacttttgta ggctttcgtg aacttgtgct taacaatgag 180
ttcacaccac cgatggcgaa cctctgcac ctgacccctgg aggtggatg tcctctggag 240
gctttgcaga gttcgggggc tcanagtctt ctgctccaag agatgctcca gaagcaagac 300
cagctgggtct ggaagaagct tttcaaacac ctcttccttc tccctgcgct tccgttttcg 360
gggtctccgg ttcactccaa tccatttcgt gacctcgcg cgcaattgcc gcgcaagccc 420
gactccgccc cggngcgacg cttccttntg ancggttttn gtattccgaa cttttnaagc 480
cagcntggga aaatgttttc aacaagaaca gntt 514

<210> 8004

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8004

agcagtttaa attttattga cctcccagtt tttaaaaaaa gttaaattta aggtcacacc 60
tctaagtttg atgtactata tacagatcgt gcagaatatg agttaaacag atacaaatta 120
gtccatgccc aaaaagatat actagggtac agaatcatct tcataaatac atataaaatt 180
cttgtgtaga agcgaactgt ccaggttttc tgagacactt ctaagtgaat caaggcacia 240

aatgtacata caccattgtg aatacacaca ttctagactt tgtgcctctg acatagccca 300
aggatttagc ttcatgactc ttataaaact aaatgtactg aatgagattc tgcttcttgg 360
gtgaaaaacc acaggaacta taaacatcat gtagataatt actccaaaat atggagaata 420
caaatacgac cctttatfff aaaaagcaac acaaaaagaat ggtgtaaatn ccagtgttaa 480
atgcctccgt tttggataat ttaantaaga accgatncag gttggttcca gaactatgca 540
tactagctct actgaggaaa 560

<210> 8005

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8005

ccatatttaa catttatfff actttgctga gcaagaatca tagacagcta ctaccacggc 60
tgcttcgttt ggacaaaaat aacgaggagg catccacggg attagttaca cggtatcaac 120
ttaccaccac agcagaatca acagtgactc gctaattaac agaaccgttt gctagaaagc 180
actaatctag ttatataaat actgaaatag gtcacatgca aaacactata aacgttttgt 240
gtgatgtact tttagtctc catagttttg tttggtataa aggaaatata atttggctgt 300
gacgtanact gttgatgtaa tttcaagtt ttctgtatg gggaaagttg ccctgactgt 360
ggcccttttc aaggtggagc ctccaacacc acgttggcag attcagactc cgtgaacagt 420
ctaaatgagc aagtcagctg aatgcccttt caaatggaag ggaaatgaga tggaacnac 480
naaaaaagga ctggcagcgg acagntttca acccgagntt tcgntgaatg gnggatccan 540
a 541

<210> 8006

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8006

gaacttaaac acggagcatt tattgttaga aagggcaagt cttacactca aataggtttt	60
aacatgaaca cattaaagg agatggccct gggccccaca gtgtctgctc tctccaaggc	120
atgcttcagt tatactgcag cctggccaac cactgttccc tgtagaagtt gaagttcctc	180
tgtattatcc agcagctgga ggagacggag tatggcagac tctggaatgc catttgtgtg	240
agttccacct actttctagg cttcagggtg aatggaaaaa gtcgcaatag gcgaaatgta	300
tttcctaaaa agctggacag aggtatgtga cattcctttg cttacaagc aaaacaaaat	360
caatgagtct ggtgaactga cgccatgaca gcaatgtgga gaagactggg aagtctacac	420
tgggaatggt gctgtggacg ctctgggcac agaagcccaa tttggaacct cttcttaaaa	480
acctgggaag ggtggtggaa ggccaancca ccaaaggcgg ggcttttccc anctgcttng	540
ggacaatctc tgggtctcct gggccagg	568

<210> 8007

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8007

aaatTTTTTT taatagtcac attcagctcg cttgctcaaa ccagactccc acattgggtg	60
agcaagatga gcccatagga ttccagagtt aatacgtaac cgtatataca aacagccaaa	120
aaaccataat ggtgccacag ggatggagca gggaagggca tctctaactg gtcctctagt	180
ctatcttcgc taaacagaac ccacgttaca catgataact agagagcaca ctgtgttgaa	240
acgaggatgc tgaccccaaa tggcacttgg cagcatgcag tttaaagcaa aagagacatc	300
ctttaataac tgtataaaat ccaggcagtt ccattaaagg ggtaagaaa accaacaaca	360
acaaaaagcg agggactgtc tgttgcaactg tcaaaaaggc cttggagtta atgggaccca	420
ggattggagg actcttanct gatacagatt tcagtcatt tcattaaaan gcttggatgt	480
taagaagang acacttaacn ggttctgaag gaaacccttg anatggancg ttaaaaacgg	540
acagatgaac ncaanggatc aa	562

<210> 8008

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8008

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acatggtgga agatttatag gtaataaagg gaacatgatg tacagaaatc tgaagtgagg 60
agtaaggtcc agaagcaact gggtccgtta cagttctcag cagtgaggtc cagaaacaac 120
tggactgggtt acggtgctca gcatttgcct tatttgaaca cagctgaaca ctcagcagtg 180
tgtgagtggc agaagtttgg ctgttgggat tggccaggac tcagctatag ttacaggtgc 240
atactccaaa gttaggttat cagtctttct acctattaag ttaggttgca gttcgtccac 300
agggactcaa atctagaagt acagagtcct tcccaggcca tatttagttc actgtaacag 360
ttcctattat gacctactg acagttcttt ttctctgaat tticctttct tctcaacagc 420
ttgtccaaat gttccattgg gtccctgttc atcccacct gaactcttct tgactgaatc 480
tggcctttgg gggttgcann cctgnttctc tacagnittg gccccctna gncctttcat 540
cggagggtta aaaccn 556

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<210> 8009

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8009

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ggtgatttgt ctcttatctt tttaaagcaa tcagcttatt ttcacagaaa caactctttc 60
agcgctcatg ttttattaat taatgtaata gctaagtaaa ctatgttatt accaataaca 120
catacaacag gtatcatttg ctaggaagca tcgggtccat cgatgagaac ccaacagcag 180
gtctgagagg tgccggttgc ccagagcctc tcaaaactca ggttctgacc cagcaagtct 240
gaggtgagac ctgagattcc ccccatgttg tggccacag gccacacttt agtagcaaga 300
tgggtggctga cattgtacat ttacaaagg aaacgccagt gccagttagt taattcaggg 360

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gatcaagtgg aagtcaactg ggaaagtgtc cacaatgata cttcaacaaa aaaagtaagg 420
 aaaaggaaag gtggaagatg agtatgttaa cttcctcatt tttcatagca aggagtacac 480
 aggtctgnct caagccatca tttcaagaag tagatatctc aatattttgg ttaaaatcca 540
 gtgggccatg gtctacagaa t 561

<210> 8010

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8010

gcactctaaa agtcattttt aatcctcgac tgtacacaat ccaaattctg gtagcagcat 60
 ctgacagggt aaataccaac tcttgtgcaa gggctcttta taccctcaac ccctctgatt 120
 ctggaaccgg ttcctaaaac aaaggcagac ttcttcagct tcttccagaa tagacattag 180
 acatggtgac agtgataaac ctttggggtg ggctagtctt tttcaacatt gatggagcag 240
 aatttacacc ctctgattca atccatctca gtaaagtca atgatgcctt cctatctact 300
 tctgctatcc aggaaccac ctcttttagag tcaatgcatg tgaaaggctc atgatttgta 360
 atatcaagaa gtaggaagac aaagagggtt gaaggattct gccaaaggca aagctgtatg 420
 angtctctn ctgactacat gtacacccta tatttgata ctcatccca ctggagtctg 480
 ctcttaaggg tccagaagca gggtcattgg gtantatcnt aactggcatt gccangtnc 540
 ctaaacagtg ccagtnctg 560

<210> 8011

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8011

gaagtaagat gaggaagacc tggactcata tgctgagagc tctggacaaa gaagtaatgt 60

aaagtagggg ccacagagct agtgccgggc caagtgaaag caggagagaga aagccagagg 120
 caggaaacaa gacaaatgca gaagtgtgag gaatgagacc ctgatggctt cctggttccc 180
 atctgctgca gggccctgct ttctgtgatc aggtccctgg aataaatctt ccttaagcta 240
 aatctggtca ctggtcctac tcctagcaat caaatgactc ctagccacag atgtgtggcc 300
 ttgctatgta acacttttcc ccgagcctaa atttccccac caggaaaact ggtgacaagg 360
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 atgggtgaga tgcttacaag acagtagcaa tcatcactgt tccagaaaag gaacctggga 480
 tctgganagg aaggggcttn acaangncat gccgatntta agggacgccc ccnttttttt 540
 taaccagggn ggggggcctc aaaattga 568

<210> 8012

<211> 582

<212> DNA

<213> Homo. sapiens

<400> 8012

atattctttg ctagaacaac caatctttat tagaaagttg tagtcacgtt tacaataaat 60
 atcaacaata taatgaaaaa gtagaacaaa ttagtttcca aatactgaac tcctgtaacc 120
 aaaacacatt ttggatttgg gaaaacacag taaacacata ccaaaaacac agccacaaat 180
 accaaaaaca aaaaccagct caagtatagg attgaactgg ctggaaaaca cttattgtgt 240
 tactgcctta agaacccac ggagcacctt gtagctcatt aactgcacat tttccttagg 300
 ggggaaacaa ggtcctctct cagtcacata tgcataagga aatctcaaaa ccaaaggcc 360
 atcagggtga agggtgattt cttgttttcc tgggtagaat accggacatg gtgggtgggcc 420
 tggctgaacc tgaggcatta gtattatctg caaaggagca tcagggaacc aacaaaaagc 480
 ctcataagtt gagcataatg anggttcagc cctttanctt tgagaggtgc ngaatatatta 540
 agggcatggt actatttaag gctttttaaa gtgatccttt gg 582

<210> 8013

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8013

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ctgttgcatc cgtgtgagct ccataaatct gctatggaac agaactactg gttcttgaat   60
ggaatcagtt gtgctgtttg ctccctcaga tgtctgcttc ccatagatcc taccagaaat  120
gaagtcagaa tcttctcttt ttctctctag atgctgcaat cgcttggaat cttgttcaaa  180
gattgagctg tgtaaaaaac gagaagcaaa caattcctgc ctctcttgct cttcttcttt  240
atggtcctct ttcttatcat ccattttccc ttctgaatca gtcctaattt tcttcttttt  300
catgtaccag gatggaatag gtcttggagc agagtcaacc ttttctttat ctttgttggt  360
tcgaaaattt gcaaactggg agtcccaatc aagaaaagac caattttctt caccagatga  420
agagagggat ttagctcttt caagcaaagc ttiantgnct ggtgtgattg gcttatcaat  480
gcaaagagta aaatttgggc ctttctaaag aactngagag ccttcatttg cttacggaac  540
ttggctttnt ggccttaaaa                                     560

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<210> 8014

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8014

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gntatttaag gatttgttta atgttttaaa attcaaagca ctttaaatta ttttaagaca   60
aaagattaat aaaaacaaca ttacctttca aatacaactt tataacagca cagtggaaga  120
atggtaaaca gtccctcttt ttttaaaaaa aaatcagtac ttaaaaccaa aggaaggctt  180
atatgtacag ctaattcana aagggaacaa tgacacctaa agacatagat aaatgcttca  240
ttttaatcca ataatgtcc tacctactgg atcttaataa tgatgttttc aatatgccat  300
ttaaaataaa ctatccttga aaataaagtt ttaaatcatt caatataatc tatgaaatag  360
catctagtta actagattac cttaaataa ccaaatatta taatcagcaa aataaaaacc  420
agtaaatcaa tttgtatctg aaagcctgag gtctggatct actgggattt taattttttt  480

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tccctaagat taacaatnta aacaaatctt ttinggtactc acatattttg acagctcagg 540
ctggctcn 547

<210> 8015

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8015

gaaaaatgta actttttattc tgaacatgta gtatttatct ttattagcaa tttttttcat 60
aatataagca tgcctcaatc atccaaaagc tatctaccta tctatataaa ttgatataca 120
tgctactgaa ttgacttctt aatagaatca tatggtaagt gttataatga ctaatcaacc 180
tacttctgat aattttgggtg taaacaaaaa tgatatttaa tttttattaa atcaagttta 240
cctatcaaat tcccttttag aaaaacactg caagtttagt cttaccaaga ttgcaagtaa 300
attttaaaat tatgggtctg taaataaaaa ggttttaagt tgaaatgtgt actgagatta 360
gccatatac aaaagtccta tcatgggtaa tgaaaagtct tatttttaaat atattttgggt 420
tccttttctt tgacatggng gcccaagata agaagggctt atttttaaan gccagaaca 480
gtttcacaaa atcgaattaa atttattcta ccaaaacctt gaactggnta gncatcagc 540
aattggccaa tggatggatc caaataatg 569

<210> 8016

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8016

atgttttaaat tgcctatggc atatattaca taatggctca aaattaatag tctggctgaa 60
attaagaaaa acagctgatg atgacttagt aaatccttaa ttttaagtaa gcttttggcc 120
aaaagtcagg ggtagaattg actcaaaatt aacagccttc accatctttt attcattctg 180

ctgtgataca actaaaatgg ccagtaaatt ctcccctggg tctcaggtaa cagttttcca 240
 aaagtgaagt atcactttct ctgcacagtg gtgaaagccg gcatttggat gggctggatc 300
 ggggtggacag gctgaaacac tggtttcttt ctcaattcag agtgtgtttt cactgcaggg 360
 agcagctgat tccttttgat gatctgtaag gccagctgag tattaccatt ctgcagttca 420
 aggtagactg ccagcaagat ggcctcaggg ggcacctctt tangatggat cattgaagcc 480
 gctgggtggag acctttcggg ctttggcata attcgtctta agcagtaacc gctgccaaag 540
 ttgacaagat tacagtcctg caaaatgacg gactgggtn 579

<210> 8017

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8017

ccttatccag aaacatttta atctcttaaa aaacaaagca aaacaaacaa acaacaaaaa 60
 acccaaaaact acgttgctcc ttttcacaat agtgcacatt tttaccataa tttagttatg 120
 gctacaaaac atcagaagat tttttttaat gtatcttctc tatggtaatt aaaaaaaaag 180
 ttgtgccctt ctagtcttta attggcagaa atatgtccca aaaaagaaac tattgcattt 240
 aagccacatc accaaaaaac aaaaaagaaa aaaaaaaaaa aaagcaaac aaaaaaacaa 300
 aaccaacaga gcataatacc cttttactga tgtgtcttac agattgacat gaccaaagtc 360
 atagggtttc atttaatttc caattccccc ttccacaaca tgcaccaact gaatatatgc 420
 tctgggagcc ataaaatgta ccaaacatct acctnttcaa aagaatgcat taaaatattt 480
 aaagaatttt ttgntaaan ggggaaaaaa tttanccaga aactggttcc ttccttactt 540
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<210> 8018

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8018

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gggattagga gaacactctt taatgataaa gcctgtccaa gtactaagga caattagagt 60
aggcaggtga cctgtacaaa gtattagtga taacacaaca ttcagcttcc taagagttaa 120
aacgtgctgc ttacatgaag ggagatgata ctgagctaag aagtcctggt atagagaagc 180
agagagacca acctacttca tattatttat aaaatagaga atattctcag ctaacatgct 240
gggagaaaaa attcttccaa aaaggcagaa ttacaatcaa tgccaagatt tacaatttcc 300
atcatgttta aatataagga caaaaataaa catttcttat ttaaaaaaaa cccacaaatt 360
tccccaacta tagcttatct gttagcactt ctttatcagt ctgactattc tttaaaggcc 420
ttaaacaatg aatttgggat aaaaacaaat aaaagtgcc aagntttaag aagccatatg 480
ttacttanga ngatatata tatttttaga ncaatcaatg gtttttaaaa agngnanaaa 540
ctgggacttt tctcttttaa aaagggtaaa tattcnc 577

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<210> 8019

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8019

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atgacaaaac cagaatgttg aatgtttatt gcatcaaaca acttgatcat tatcattagt 60
agcaagctgc cacacaattg caaccgtgtg gtttttgcca taggcgcccg ctgggacacc 120
caagcaggaa ccattgttga agcccgtctc aaggagctgg catgccctat gccggtcatc 180
tttgcaaaag ccacccccgt ggacagacaa gaaaccaaac agacctacga gtgccctgtg 240
tatagaacca aactgagagg cccagctac atctggacct tcaggctgaa gagcgaagag 300
aagactgcaa aatgggttct ggctggagtg gctctgcttc tagaagcgta aggtaacact 360
ggcattcctc tagcctctgc tggagtgcag tgaggatttt ctagcatgtt gctgcactgt 420
tcccatgcac attattctaa ctttttagta actcacacgt gcattctttt ttcaacgcta 480
tccttagagt gaaagtcaga aaaaaatact agaaactaac tcanggctga acgtggtggc 540
acacgactgn aatcccagnt actcaggang nangagaatc ctt 583

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<210> 8020

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8020

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gttttctgta aaatattgaa gagatttatt ctgagccaaa tatgagtac catggcccat   60
gacacagtcc tcaggaggtc ctgagaacat gtgcccaagg tggtcggggc acagcttggt  120
tttatgtatt ttagggaggc atgagacatc aatcaaatac atttgagaaa tacattgggt  180
tggtccagaa aggcgggaca actcaaaggt cggagcaggg gagggaagct tccaggctac  240
aagtgaattt aaacattttc tggttgacaa ttggttgagt ttgtctgaag acctgggatt  300
gatagaaagg aaatgttcaa gttaagataa agattgtgga gaccaaagtt ctttgaagtc  360
taatagtcgc tgcccttaga gacaatagat gacaactggt tcctattcag atctttcaaa  420
aggtgctaga gttttaatct cctcaggatt gggagggtct ggaagaaaaa gatctagcta  480
tggttaacagg agattcttta cagatgcnaa ttttcccca cacaaaacac tttgtagggn  540
catttcaaaa tatgggtaaa cccattttga ggnaaactct tt                        582
    
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<210> 8021

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8021

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ctgactcttt taaattgtat ttattcactc cccaccaatt tgaaaaatct tgtaaattac   60
agagggtttc ctagtcatta acatgaatta gtaatgctat aacttaattc aaaagcaatt  120
acttcttaaa aatagggcgc ataccaggaa agcttagcat cagccaaagc tactagcaca  180
ccacgggcaa aaggccaact ntgcagggat atgtaaaggt cattttatgg ataatccata  240
taaaaactgc tctcaagata ttttgcccat canaatttgt ttacaaatgg aaatctaatt  300
    
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tgatgatttt aggcctttgt gctanaatct cacaaccaga aagaataaca cctttaatat 360
 gaattccttat gatattgtca gaaagtttaa caggagtat ttaactcct gttaaaataa 420
 tagatgacag taaaaagaaa ttcaaagggg aaagaaacaa tntacgaaaa agctttgggg 480
 taacagatgt tgagcctaca ttaaaaacta tttattttta aggtttccta tgtntaagac 540
 ngaaatccca gcnccttnta cntttggggn gg 572

<210> 8022

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8022

cagacagaca gatctttatt agtgttttca acttattttg ctcacaactt cccagcaaga 60
 aatgtcttac attgcaacca gttctcacat ttagatgtat gggtgaaaag tttcacaaaa 120
 cagtatttgc ctttactaca tgatgcattc tggcctactt tattctgctc cattgctgtg 180
 taatgctggt gaccacttgc taattgattt cccattttac taaatgggct gggacccacg 240
 gtctgaaaac cctgccttag gctgcaagca tttctgngat ctctgcgagc tactccatat 300
 aggtaaacac acgcgaggta aactaggaaa cagcttctgc ttttgcagat tanaagtga 360
 gttgacatca cgccaagtac gaaaaggcta aacagntgac aaaatttcca cttgagcaac 420
 cctggggagc gcaaactnga ggaatcnggg cangntgac ttgaagaaag cactgcngat 480
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<210> 8023

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8023

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 cactgagccc ccaagagtcc ttttggtttt actggtgtca gggattacag tcagcaaacc 180
 ccactcattt acagggtcag gtgtacaggg ctgagctgga gggttagggt cagggcccct 240
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 aaagtacctg ggagagctgc aaacagccat ggagataaga gaggcgggga gggaacacag 420
 tgactgagtc tgagagacag caaagcacct ntccagcgaa agccactccg agatgcagcc 480
 taacttccta atttgcata gcaaggatga agcaggcnca ncatggaaag aacacctggg 540
 ggtgtaactg gttaccacag ctttaaccaca ntccccana aacggagg 588

<210> 8024

<211> 583

<212> DNA

<213> Homo sapiens

<400> 8024

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 ctgatcccaa cagtagttgg ggcagatacc cacaaccaa agggctggga aagtcaggaa 180
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 cctgcttctg tcccatgcag cactgtgcga ccgactggaa taacttttcg atttctgggg 360
 cacagtgtac aaattcatgg ttccagaact taaacgctgg gtttttaatc agctcaatga 420
 aggtataaag aagaccccaa ggatgtggcc tatttacaat caaccgttc caagagaact 480
 cttggtgatc tgntcttggg tggtctccgt attggccttg caaaaaggta cagcatgggtg 540
 caactgaata ntgagtgtgg ctatttgggt accggaactt gat 583

<210> 8025

<211> 508

<212> DNA

<213> Homo sapiens

<400> 8025

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caatggaaaa atttttttagt aaaactggaa aaggctctat aaaatgtcct gactccagca   60
gtcttgaggc agcacacaat ggcatcagtg tctaggtggc aggcactccg ggctgacagc  120
ttccttctat ggctctatga ccaagcaacc cagccccagg cagctccac cagtgaggcc  180
ctgatattgc agggctaagc acctaggatc caattctagt acatgccacc tcatgctagg  240
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gcctaggctg gagtttcgca tgaagtcccc gattcccctc caggttcatg cggcctgacc  360
tactgcctt gaatctgacc tgctcattcc tacctnaggg cttggatttc cttttctctc  420
tgctgggtc cccttcgccg gatgttcacg nggctctntc cttctanttg tttaggcccc  480
aanttcacat gcccttnngt ttcanaaa                                     508

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<210> 8026

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8026

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gttaatagtg atggggtttc accatgggtgc ccaggctggg tttgaattcc tgggctgagg   60
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gcctgcttga cttttatcct atggaacact ccaacaagta aaatttaaag ccagctctca  180
tgacaacaaa gactctaccc tcagcgccaa catttctcac tacttacgca tttcattttg  240
gttaagtatg atgtgcctgc ctctaacct ctaaggcaag aacaataaaa catatacaag  300
ggacagccag cctcaaaaag gtgacttgtc tcccacaagc caggttctct gcatggaaac  360
tgaagggtgct cttatcttcc gattgtggag tttattacat tttggtatca caaaggaacc  420
aactatccag aataacaaca caagatgttt taccttatat atcttagaaa ttttaaaagc  480
atganctgtg cgcctccgga tgacatctgg atcantcgtg ggaaggaaat ggattgtana  540

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ataagggttt ggcanttgga aagggttaa aaaccangac cccttgntt aaangg 596

<210> 8027

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8027

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tcagtttccc gcctgtacct actcattatg aactacagta ctggtgtcac ttatacgtta 120
tcatatttct tcatatcttt gcagcactgc agatgacaat ctacaaagaa caagttacac 180
agcaaaatat cagtccataa aatgaagtc ttccttattt aggttagctc agtgattaag 240
gatcttcttc catatcatct ggattaggag ccataatgaa gtgccttggg tatacaagg 300
tatgtgtgta tgcattgtatt tcccagcgag catcatcact ttcatgtgta atgtaacgtt 360
ctccaatgcg agtttcaa tctctaaggt caagccaagt ctgatagtc tgtagccagg 420
gatgactaag agatttgtca acactgtaac gttttctcat cttcacttga agcagattgg 480
ttatcagaac aattgcttca ccagaaattc tctccatgga tttgggggga cataaagcng 540
cattttggat tnggcantta nacttnatcc cattaaaagg naagggncc 589

<210> 8028

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8028

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tgtgcttctg ccatgttctt ggggcagggg cattccattt cccctgatg ctttctcttc 180
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cacagtcggg gggatggggc agaggcaaac agccctcctg tttcacctgc agacaggggtg 300
 ggccanagtg ctatggagca gactggggtg tggaagcctc gtgtgctgag gaatcagtcc 360
 ctgcacacag gagcctgtgc gggggccagc acgcatcgca gcctgcagta caagcctgtg 420
 cttttccatg ccttccggtg ccaacacccc gcacgggtgcc acaccaactg ttccaactaa 480
 catgctcaag tggcacaagg cacaagcann aaacgttntt ccaacccaac ctgggcanaa 540
 aaaaggcnag ccangngaa ccaaagtcct 570

<210> 8029

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8029

catgagaatt attacttata ttttacattt nggnctaata ttttttctg acaggtatca 60
 atgaaagcag aagaaaatcc actccaatac ttagttttca agacacgac ctaaataattt 120
 aaacccttg tagctggcct ataatatata tatattanat gttatataca gtanacttac 180
 caagtcaata gtttaagcaa tcaagccact tcactgttca gtttctttac atcatgaaan 240
 gaatactngg tattaacctc tcaaatttca agaaaatgta gaataactac agatgtatat 300
 aattagcatt taactgtcca caaatacttt aggaaatcct atcatagggt ttcctctata 360
 taaaactggg aaaaaaccan gaattaagtc cttttggnga atatacaagg cantgtttag 420
 ttcatttggc ctggaaaata tatattagan ggtatatccc ggnngacttn ccaggtcaat 480
 ggttnaggca atcaagcccc ttcactgntc aggttcttta cntcttgaaa a 531

<210> 8030

<211> 465

<212> DNA

<213> Homo sapiens

<400> 8030

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 cccactccc agganaggcc tcacatgctg ccttcggtct cgccagcctt ctaacngggg 180
 gcctgggccg ccctttaggg tgagtntgca caccctgtgt cagggtccc ggccggaagc 240
 ggaaccatan gcatgctgcg gccccagatg agcgcggagg gcaagcaggt gccggggcan 300
 cgcacacccc acagccaagc ggtccctgcc cagcctttgt aaacagaccc tnacaggtcc 360
 ctctgggcc tcagtcacat ccctgagaaa cactggcggn tctgccccga naggncagg 420
 ngtgtncacc gaacctggct gaaccagntg cccttncctt ttgca 465

<210> 8031

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8031

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 actctctctt acaaatgaac actatcactg tcgttgaaaa ctttcttgag atagtttatt 180
 ttatacaaac aaactgtatt tcttattatt cctgaaatat ctcatattgg catcctgcca 240
 tttcattgta gtgcctatca tttttccatt gatactgata aagttgccta agacacaact 300
 tcctacatag aggaaataag aggaacaaac cccttttgga cagaatctat taaaactcat 360
 tcactatcc ctatgtacat aaataacatt gcctctgctg agtggaattt gcattcgtta 420
 cttcaaaatt cagactcacc tacctttcca agtttagacag ttggggaaag aacttcctaa 480
 atcttaaggg tgaaggcaga nggctnacc cacttcagat caggcaaggg gaataggaaa 540
 gnaaagtgcn agataganct ggnggcctnt tgggg 575

<210> 8032

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8032

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agcatgcaac taaatgtatg tttttattat gaaatgtaat atgccaagat tatgtaaaag 60
atacagttct aatttcacac aagttcacca gtaatgggtc tcccagcttg ccagtttagga 120
agtgctctgg gggagccacg tggccaccac ccaccccagc acactcagca gcatcgcatg 180
tacacatggc ctgagtgagg gacaatgagg gtaattcitt ggtagtgacc ctcaagacat 240
ctctctctgt gcacttgtgt tcccctgagc tcagagaaga cctaactcca tgatttgatg 300
tgcatgatga gactcaaaca agggccttgt atagatTTTT taaaaagggt gggttggggg 360
ggagcggaaa aaacctataa atatgcctat attcaaacat taactgnttt acttaatatc 420
aaatcacttc agtacaaatg tcanaagaga agtattatTT gcatctaatt aacctaaaga 480
cacangaca cgggatatac tatacttcca gaaaaatccc antatctacc ttcaaaggng 540
actnnnaana aagaccaagg gatttt 566

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<210> 8033

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8033

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acatggataa gtgtattata aatttcagtg aaataaagca tctgcagtg acagtttaca 60
aatatagtat acagtactca tttttgtaaa ttgtatatga ccaattgatt ctgcagaaa 120
acatcggctc atttctggaa aactcgtatc tgcagggaga ctgtagctgt atttgaccag 180
ggagggtagg cccgacacag atgctagtga atgttcttat ttgcattaat gagtaagaca 240
aaacaaaaac gacaaagcag tcagtgtgat ctggtttgtc agtgacttct ctgctgaact 300
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ggcttcaaca cttttaagtc taatctgcat tattaacacc ttctccatca gtctgagtta 420
aaggccagct ctgggtttgt agcacttgct gccgtctgca gcgtcaatgc atcaccngna 480
gcccacttca agctttcacc ttggcanggc tgacaggaac acccggcgtg ggacncctaa 540

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acnggagacg cttctgggga ccgtccagct tggt

574

<210> 8034

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8034

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ttggtaaaca gaggcctagt taagaattcc ttgccctagt ggtgaacaag gactaaacac 180
agacaatggg tgaaacacag acgctaattc acataacaga gagtaggcaa ccttaagaat 240
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gaatgcaagt gtttggcttt gtaatacaac tttttagtat ccagaagata accagtgtc 420
taccaataaa gatcttttga tcaaagggtt ttacttctgc cagtcttact cattttttca 480
ggtttttata ctttcttaaa ccacncctnc cttatgnnaa atttaagaan taatgnnc 538

<210> 8035

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8035

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aactcgacac ttttctagca ttcttgaact aattcacaaa tgcaagaaaa taaaagaaaa 120
atgagggaaa tgatgaatgt aggtagtctg gtgttaaaaa ctaatgcagg aatgatgcgc 180
attgtcacag aaagaagagg ggaaattccc catcctgttt tgcgtgctat gagggtcatt 240
tttaaaattt ttattataaa cactattaaa ttacagaccgc ttttttggtt ttttttttct 300

ttatctgaat atacaagaac attcattatc aaatgttcat catcaatact acaaagaacg 360
 agacacaagt cgcaagaaac aatggaaaat gttaataaag ctgaaagaat ccgttgagta 420
 ttttttgggt tcttttaaag gtttttttta aatttgagtt ctgnaagttc atctttttgg 480
 natcgaagca ggttttctgg ggcagaaaaa ccaagagcnn ggaaagagag agcccagagag 540
 gaaagatgtg tganaaaggc canccnccaa ttaagga 577

<210> 8036

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8036

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 caacctccgc gtcccgggggt cagccattc tcctgcctca gcctcccaag tagctgggac 120
 tacagacgcc gccaccacgc ccagctaatt ttttgtatit ttagtanaga cgggggtttca 180
 ccatgttagc caggatgatc tcgatctccc gacctcgnga ttcgcccacc tcggcctccc 240
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 ggtccagctt ggctantatn tatcagtaag gnattccnga agggcttgga gtcaacttgg 540
 ctgggtatgc cttaa 555

<210> 8037

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8037

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 ctcaatcttt gttccactgg agaaaactta attagtgggtg aaagagaccg ttttctttca 180
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 agnttaaaaa tggccctga ctactggact nttaactta natgaccact tntttccgga 540
 aaagtttngg naatatgccc aaatctt 567

<210> 8038

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8038

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 cagtaaatca gggcctgcat tcgaaactac aggttatttc aggctcctta cttgtaagta 180
 aacaatgtaa acagcatatt ttactctgc ttgtcaaga ccccatggt gggaatgtcg 240
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 aatgagtttt cttgggtttt ggtttttctt cttaaagaat ccatgttaac cactagagaa 480
 cagctntttt cttccccagt cccacagatt taaataaact gnttaactt ttggaaaaac 540
 ccgaantatt tgagcctaan aaggaaatgn ggaatgncnc a 581

<210> 8039

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8039

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agttgtcttt atttaaaaaa tgaacacat tagttacaaa aaccgttgct ccaaatagat   60
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tatcataaat aaatgattat ttctttctca gaaagctgat tttgtagtg tagtatttac  180
aaataccgta agtgaaaaat gatagtttat aaatttgtac catttaggaa aaaatgtttt  240
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aaacaaagct atttgttaaa atagacttat ttttgcctca actaagtaaa catgtaaaat  420
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caatatctag cactgnaccc aaagcttaca gacnactgca atggcnctgn gcctanttca  540
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<210> 8040

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8040

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gttccctttg ttacaaacaa tacaccacgt ctggttatca ttagcatatc tgtcttattg  420

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atcatgacat gggtaaaata tttgnatttt gcaaattctt cattttccat gacctgnaac 480
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 anc 543

<210> 8041

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8041

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 aatataagga taaaacatac ggtttcagac tgtacacttt gctgctacaa actacatctt 420
 gatgggatta agaggctaca ttgattcttg ggtttattgc accaccatcc ctctctgacc 480
 taccatggc tgcacttgaa acangaaac tncagaaga aatgaaaaca gngggnccta 540
 aagcacttnt tccaacagcc attcttacat gggt 574

<210> 8042

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8042

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catgtcggca catatatata gctcttctc tcctttcctg ggagcaaacc cttagcgttt 180
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 gctgcacaag gcttttgcca ttgccagtcg tattgctcca gcctgcgctg acctcccgcc 360
 ccctgagact gtgcaggta cgtcgtgctt tcccagccgg tcaacaaagt ggaaagggaa 420
 catcagctgg tctctgncct gtggtgatcg ggaagtaaag ctggnaatca ttaaataaat 480
 agtatgactg gttgncagta tngaagaaa tagtgaaatg gaccgggcat ttttttccca 540
 ctggaatggt cttggcnttg gaaaaanctg gtcang 576

<210> 8043

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8043

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 ttttcaaaaag cagaaactca cattcataaa actttataca tcatttgaac taaaatacat 180
 ttatactact aaaatcaaac atgcatcacc ttcaaacatt cttatatcat gatttttata 240
 tattacatta tttacacca ttctcatca ctacatggat tttatcatc actggcacca 300
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 tgtaaaactca tgttttctga aatctttaag tttcttigna actgactaag ggccttttta 480
 acttctctga gttccccaga agagcntttg ttggaaatct ccaatttaat atggnntttc 540
 atcttcatcc ggtttttctt ctaagaacc 569

<210> 8044

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8044

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gtaaccta at ttttagtgac aatagattca tgtactatgc aatagaacca attgaatgct 240
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tgccagatca aggcaatcct tgtatatatc caaaactgt atctataatt caatgccatc 420
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ttccaggtca agcattttta gcttg 565
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<210> 8045

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8045

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ggatttgaat tatctgactt tatttagcat gcaatgcaat ttattctggc aataaattaa 60
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cactagaata tatgcagaat cctttaaaca gtcgacttca tattttaaac ttgtaagtgt 180
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gacagctgag aaaggcaatc acctgatcga gtctccta at tgtacagctg aagaatccaa 360
tggccttgcc aaagattacg aagctaaaga gacatagcct ggattacaag tcagttttta 420
taggtgctcc aggaatgtct tgagctaaat aaggcacacg tatcacacag aacttttagtc 480
gtatcttcaa aagtcagtt tactctgntt tctctttaat ttttaagcat gaaggcttgc 540
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ctgttacaca gcttgaaccc catgggggta acan

574

<210> 8046

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8046

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atacatcttt taaattacct taaaaagtct ccaaataaat atcattttta aaatcacaaa 180
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tactactctt accaattatc aattaccaat tggccaataa tcggnactag tcttaccaat 480
gattcttatt tttcattcta gaatncaaac tttaaacctc ttttggtcan ccctttgggt 540
taaaggggnc ctggaattac nttangttca anaatatt 578

<210> 8047

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8047

cagtacaatt cattttatta ttttagtgca acaaaacatt tccagattta tttccaattt 60
cagtttcaaa acaaactgac ctgaaatttt tagtatctac tatctgtgac aatgaccaat 120
aaaatgtgta agaataataa aaataaattc attcattgtt ggtagtactc caaattcaat 180
gcataanaac cttttctatc taaagcattt tcctaaaact gcaaactaaa aatctgatat 240

ttaaaacatt tatgtggtaa aataatctca tttgattatg gatatacataa atagaatata 300
 aaagatatta cattttctca aataccattt gtttactgt gttcaatttt gagtttccta 360
 acatccattc tacagggtcaa tcaaaatata aaggcgtgca aatgaaacaa gctattgaaa 420
 tgaaataaaa ttcangaata aaagtttagaa ttaacttatg angnaacttt tatgtaagcc 480
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<210> 8048

<211> 598

<212> DNA

<213> Homo sapiens

<400> 8048

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 ctagcaagag taaaacacaa accttttttc ataaatatga ctacagtaat cataacacaa 180
 aaaagggttg ataggcattg cttagatatt taaaacaagg gtaatacttt ccactcacc 240
 taaaagaaaa aacctttttg attaccagtt tataaacatc ggatttgcta tgttaaaaag 300
 tccagcagaa ttttaattca gcaacactgg agaatgaata tatatatata ggcatacatg 360
 tgtatgtata tattcathtt atatatagtc aatgtattta ttaggcattc cccacaaaa 420
 gtaatttata ttttaattgcc atttttaata aacacttatg ttcacagatc atccatctgg 480
 cntatatgaa antaggcaat atcaaatgtc ctggtatggg ctccgcttct tgggaancat 540
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<210> 8049

<211> 604

<212> DNA

<213> Homo sapiens

<400> 8049

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agaaaaaaca agatttgtat tttatttcct tgtaaaaatc tttacacatg cagacaaacc   60
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gcaattttat ctgtataaaa ataagataca tttttacaga attcacgctc cagttcttat  180
agcaataaac aatacacaac tataataaag tacaattgaa cctgaccatg gtttttaatt  240
agatactgct agggcatttt aatgtgcaaa aaaattaaca tagttctttt caaaagaaac  300
tgtcctcagt gttctagaga cctagagggt ttcaagaaat caaatcctaa tcagtttgcg  360
tttaatgttt ttgattgagt ccatacatca cactgtagat aggcaaaacc aagaactgat  420
gcaggctcaa aggaagagaa agtcagcgcc tgtgcctgcc atggtcctga gcgactgncc  480
catggtgctt gcttttatng ggacctcttc aaaggaccga agaacggttc acgccctggt  540
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<210> 8050

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8050

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ctttcccaac caggttgtcc tggctcgaga actggcaacc tccagagaat atgcgagtga   60
gtatgggctg caggagctg tgcgtccggg agcagggcaa gcggctccgt gcagggcggc  120
tggggtggca gggccggtgt ttctgtgctg atttcagggt acaggacact gttggcttta  180
gagaccacca ggctgttttg tacaatgttt gaaagacttt aatttgtacc agttaccttt  240
gtgagtcatg tctttagtgt tttttgttgt ttctgatagt aactcacttc tctctcacct  300
gaagttaaaa ttctggagaa gcgacatata ataaaagaga acaaggtccc ctatgtaacc  360
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tttcaggacg acgagaagct gtgtatcctt tgcgtggttg gtgcccgtg aagccacacc  480
agtcaccctt ttacttgga atcagaccct gtgngttcca caagcagccc cgttccttgc  540
cantggggnc ccttaggccg ttacantnag g                                                                    571

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<210> 8051

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8051

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aatgaagaaa cttgttttaa attgtaaagg aaaaaatggg aatgggacgg caaaatctta 60
gcagcaaagt ggtaaaca attgaaaata ttaatgcaca aacattaata tattaagca 120
tatatgttgc atataaata cagtacagaa ccaggagtig cactatactg attagtgtt 180
aacagaagaa atgattaaat ttgttcctcc cagaagtata tacacagttc atttccacag 240
cattttccta tatagccagc aagttatfff cttcagttat tcacaccttg atcaaacctg 300
aattataaac ttagcactta caaatatgaa aattcattca caaggaaaaa cagtatttcc 360
atttcaccaa taaaaatfff gaaagttaac agtctattct aggaaaccaa gtttagctga 420
aaacttcang gatgaagatc atctgttgta gcagcattca aatatataaa cnggtaaaaa 480
taagacttaa aactggtggc tacagggtca tggtttngga ttaattcatc cattgatttt 540
agtccaaact tgaataccct tttntttata acan 574
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<210> 8052

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8052

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cgtttatgcc aacaacttta ttgagcacca attagggcaa gggactacca ccttcacagt 60
tctcttgggc ttattaacgt cgtggccac tcatttattt cacaatgag gaaaccgagg 120
accctgctgg gagagtttgg ggcccaacca gggctccac tgagtctggg gcaccctcag 180
ctcctgcacc acaaagcttc ggttgacttg tttcaatgta aagaacgtta cttaaacagg 240
tctgagtgtt aggcaaactc acaagaccta gctcaaagtt tgagcacatt ggtatgaaaa 300
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aaagaaaaaa ggagaatcag caccttgtga tatttaagca ggggcatttg gcattagcca 360
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 agtcctgca gctgagggtt aaactcgtgc acctgcactt gcaccacatc ctgtctgact 480
 cttgctgaca gcccgtctct gggttgngaa ncttctggca agggttgggg ggacttcaga 540
 acagaccagc cnggatccca ggncanaagg g 571

<210> 8053

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8053

gagacggagt cctgctttgt caccagggt ggagtgaat ggtgcagtct caactcactg 60
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 tacaggcaca cgccaccag cctggctact ttttgtatit ttagtagaga cgggggtttca 180
 ccatgttggc caggctggtc tcaaacttct gacctcaggt gatccacctg ctttggcctc 240
 ccaatgtgct gggattacag gcgtgagcca ccacaccgg ttgaatcttt caagaggcag 300
 gttaacaatc acatttttaa aagggaaccg aaaggaaaac tgaaagacct aagtcaaaca 360
 agccctgata ctgtccattg gaacccgagc gggacacagc acgagggaaa tgcagaaaga 420
 gtaccgatga gtgtgcacac tggagaatcc tttctcttca atccactgng caagtaagta 480
 tacttggata aatatncta gacctgccaa antnaatate ctgnaaatan acatagc 537

<210> 8054

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8054

catgtcatca tgaatttatt tticaggcaat atgataatct attaacactc agcatactct 60

gaacttacag aataagtacc acgccatact tcctcattaa tgactatcat ttacatgag 120
 cttcttccac aatcacaatg agagaacaga ttgctacatg tttgctggta aatgcattca 180
 gtaaggcact caaatcctag acacgaacta accacagaac gctcttccct gctttaataa 240
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 aggaaatgat ttcacattga cggtttttta ggtagggata agcgaaagca ctgcagcagt 420
 ttctgaggga atgtcttctc tgnngttccc catacttagt acaatgcctg gaatgtanca 480
 gggactaaat tcngtggaca aatgggcaaa cctttaattc cagggatctg gtcaaattgg 540
 cttgactggg anaacatttn tcaagaaaaa agn 573

<210> 8055

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8055

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 agatttaaag tttctctctc gtctctggtg gggcaagccc aactgtttcc tttcttcaaa 180
 ggaagggccca gctcgatact gtttcagggc cttcttgctt gtgttggtga gttcttcac 240
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 gggcattgct cgggcccgtt tggctctgct attcctcttc gctagccgtt cagcaaacat 360
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 ggcatccttc ataaacttct tccttttctt ctttctctt aaggccaaag tcaaattcct 480
 gcaaancctt ggcaaatttc tcctcttcc tctcttctt ggncitggaac cagttctttt 540
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<210> 8056

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8056

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gagtcagggt cttgctttgc tgcccatgct gaagtgcagt ggcgtgatca cagctcactg   60
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tacaggcatg agccaccacc atgcctggcc cctaatttca gtattgctgt gtctcaagga  180
tagggaggtc tgagcagaag gagagagata gggaggcagc tggtcagtgc agtggtcaga  240
acacataaaa catttatcga ctcagtttgc tgtctttatat aggggtggtt catggtgccc  300
cccaagcaat tatgacagta atatcaaaga tcactaatca cagatcacta taactgattt  360
aataacggaa acattccaag aattaccaa atgtgagaga gacatgaagt gagcacatac  420
tgtagaaag atggtgctga cagacttgct ccatgcaggg ctgcacaaac ctcactttgt  480
aagaaacata tgatacctgn gaagtgccat aagggatccc ctgaaaacag tgggcctgtc  540
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<210> 8057

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8057

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acttagtatt agcatttggt gaaaaaataa atggccaaag ngctttaatt ttcattttaga   60
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aaaatctaac acaaatagga gcgtttacta ttttgtctg ctttaagatt ttaacttgat  180
cgaaaatacc aacatcccca aacaaaattt actgacctga catcagctta ctatagactg  240
aatacacttt caacatcagt ccttagctac ctcaaataat gacncaaagt cttagtttct  300
tttgcataag gatcaagatc aagctatttt taaaacaatt taaatggtct caaaacattc  360
tccaacttaa gtgcaaattt gagtcacata atatttccaa agagtagaac tgnnttttaga  420
ttatctttgg attctaataa ccattttgnc catttttaaa taaattacca aaaataccag  480

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tcagggtttt tttcttcaaa tttntaagg ccttggtatg gcaccccatn tntcntnaca 540
gggcagcttg naacn 555

<210> 8058

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8058

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gacttttgaa aatataatcat taagcatgta cttaagtgtc aaaaacctca agtcaaactc 180
tacaatgtat ttcaaaagca aagctaaaat tcattcactg nggttaaact gcatttcata 240
aaatatctgt tgaaataaac ctcatataaa cataattata cagatatattt aattgtatat 300
atatcaggta cacggaataa aagtcctact ctctagaaca tgagaagtca ataaatagaa 360
aagatataca aagtgggaatg aacatagaaa tgactaagca tgtgatcttc acattcatac 420
agtttttcaa ctaatctttt acaattaaaa aggtcattta tttgaaactg tanangttga 480
tatatgccat attagtttgg aaccttccaa acaacttttag tgggggtaat tatgtgtgga 540
gaagaaaact gggtatgnaa ctatcatggt tcaag 575

<210> 8059

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8059

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cctggccctt cagtcttttc atgctccata actttcacia gatgctgtac acctgctaca 180

gacattggtc tctaaggagt tattctctag tgaatctctt tctcccactc aactccatgt 240
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 tagctgggac tacaggcgct cgcacacgcc cagctaattt ttggattttt agnggaaatg 480
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 aaaggctggn 550

<210> 8060

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8060

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 atgcatatgc aagtgaata taatttattc tgggttcaac aacaggtata caaaggcaca 480
 atttttcccc aggaaccnt cactttataa gtgcaaaaca ccctgnagct tttctggtan 540
 ggcttgcctg cttttancn 559

<210> 8061

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8061

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atccaattat	tttcacacat	tcccacagta	actcgagtct	ctagacagt	ggaaatttgc	180
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caagtttctt	tggnaaaggc					559

<210> 8062

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8062

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atgtttaaga	tcatgtataa	atgttactct	gaatctcatt	tgttgtcatc	aattttcttta	180
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taacatgtcg	acatgtgaga	ataggtatct	gcatggtctt	tcttgggcaa	aancccaaaa	540
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<210> 8063

<211> 520

<212> DNA

<213> Homo sapiens

<400> 8063

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aaaaatcgag aaagagaaaa caaataaaaa caacaacaat aaaccaaact cctacttcca  180
atgttctcta gactgttcaa aatgcctttc cctcggtttc catcagtacc tgggagggaa  240
gaatgggcgt tttggtgcaa agaacggagg gccctagca aaagggtggcc tgggtctctt  300
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ggccactgct gctgggtctg cctcccccaa ctntctcttc atgggggtggg cccaagtgtt  480
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<210> 8064

<211> 600

<212> DNA

<213> Homo sapiens

<400> 8064

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cctgcccctg ccaggagatt ggcatccatc tctgcagtgt gaaggtcggg gcggcgctga  180
gagcacaccc acggggaatg gtgctcagtc tagagaaagg cccagggtct gctgctggcc  240
ctgccacgtc gcttcccttt cccgggcctc agtcccggga acaatgggca cctggactga  300
acaatgggca cccggagctt ctttcaggct tgtcaggata tgtgcaaatg cccacagggc  360

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gggcagctgg gaggccctcc gtgagagccc ttagatgatg ttggctgagg ccaggcgagg 420
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 tcaagaacaa gctgggccaac cacagcgaaa gcctgtcttc tactaaaaat ncaaattaac 540
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<210> 8065

<211> 594

<212> DNA

<213> Homo sapiens

<400> 8065

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 atccatagtg cagcaagcaa gcagggtggca tatcaataag tgatacatat tactgagtcc 180
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 tgangttcct tcatcanggg gctctttgag aagatgaaag gggtttaagt tggctgactc 540
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<210> 8066

<211> 602

<212> DNA

<213> Homo sapiens

<400> 8066

aaattttaaa aggattttgt tatitgctat acaaataac atttcaactt ttacaacatt 60

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 cttcaaggac attattacgg atacacaatg ccctctgaaa gcttttgcaa atgacagaaa 180
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 gtttacaata tgctgtggct gctggcccat gtcactgggc tttcctataa aagctttctt 360
 ttcttggaac tgctgtccct ctgctccagt gtctctttgt cccacctaga gttcctcctg 420
 gtgtgatggg tctcggaacc acacttcttc ctgctnccct tcactgaaag ccttggcctc 480
 tcttctgnga cagancttcc tnttncgggc atacatttgc tctgacaccg tggaancttc 540
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<210> 8067

<211> 606

<212> DNA

<213> Homo sapiens

<400> 8067

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 aacatacttt tcaatatgat acaaagcatg catctcaaag tcattacttt aaaagagagc 180
 aacacaggta aaattcaatg ataaacttca cttcttggca gtactatagc tggaatgaga 240
 tctgtggcat gatcagccca agatggatgc attgagtctt catagactca ttcgacaaaa 300
 acaccagaa agaaaggctt ttgctaagaa cacttcaaaa ggtttagaac attgcaatgt 360
 aacttgcacc ctggcagcac ctgtcaccag actgtcagtg caaaactgaa agaaaaacat 420
 taaaaggaga tcgtgaaatg atacagtgn agcggggcag tttatgctaa aaccaatcac 480
 accagaattc tagatgaaga aggaccatga atangcttng cccaatttcg gtgacacttg 540
 acacagtnaa agatccaaat tttcaagttg gaagggggta nanaaggggg cntcaaggg 600
 gaaaaa 606

<210> 8068

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8068

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gtttttttat aaaaaaagct ttattagtgc atatatacaa atttacaagg tcagaaactg   60
gagaaataca aagagcttta aaacacaatt tgccgtttcc tcagtttaaa gtgactttta  120
cctgattgtg atacaacaga aagtacagaa cagtaaaactg ctttttaaact actggaattt  180
tatggagaat acattcacat aaagaaagga ggtgaatfff gttttggaac aggggttaaga  240
caatggagac attaatacat agagtgtctt gttgtattta ctgccacata cttgagggga  300
aattctcaaa atcaaggata tgaacacctg ctgctgcctg tatgccacct agtgtgcgaa  360
acgaccgagc taccagttct agaacttatg agaactactc taaagagtgt ggccatctat  420
cagcacgagg taaaccactt agacctcagc acttcagggg tggcccgcta gagaaaagan  480
gcctgaaaag cttcagacaa ttccgtcaag ccaaggtata atgccaaact tgccttntga  540
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<210> 8069

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8069

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caaagtacat attttattta tatagattag tgcaagctga acaagaatat ggtttgtaat   60
ccaatttata cagcatcacg tagtggctga ctgtcctgac catgggtgga agcaggggatg  120
actggccttg gtaaaggaaa tgacacacat tcccccaatt tggaagcaat ctttaattagc  180
cagggagtga tttttttcct tcagcaacgt agtccccaaa gtacagacag cttctctctt  240
ccttataggc cgagtcgtag gagtagcaag cttctaaatt ttggctgtgc ctctgagctt  300
ttggcctaag tcccaccagc cccgaagttt ccatgacaac aaaacaagga tcaacgtgcc  360

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tctgacactc ccttcagccc caaattgttc tcttactccc attttcttcc tacctcccaa 420
 gtatcactgg gatacaagca gaacagggct ggggtgctga actcaccctt ggggaggact 480
 cattatagca tcttgccttt ctccattatc ggncaactgg ctaaggccca attaataaca 540
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<210> 8070

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8070

caaaaacaga ttctaacaag tacaagaaa taattaacaa aagctcatgt gtgccccaaa 60
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 tatcagtcac atatatactg gcacttagtc tggtagatgc aaatttcaag gcaattcctc 180
 tccatctgag aacgaggaat tgtgtcattt taaggccaaa ttgcagtcca attgccacaa 240
 gtgcaaaacc accccacata accacctatt tgtaatcatg gaatgatagc ctcaaccaac 300
 caattgtgcc atacatcatt gttaanactt ctttggctca ttttagtata gattttaaag 360
 taaaaattgc aaaagatgat aaacatctat tattttgtaa aagttacaag ctcccattcc 420
 aggtgtcagc cctgtagtgg ttctccagcc tagctgccat aagaagcatn accaggacac 480
 caggatgatt caaccgaag atttcnaaan gncctcangn gattccaaag gcaaccccgt 540
 gnt 543

<210> 8071

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8071

ataaagaaaa agaagtttaa tggactcaca gtttcacacg gctagagaga cctcacaatc 60

atggcagaag gtgaaggagg agcaaacaca tgtcttacgt ggtggcgggc aagagagagc 120
 ccgtgcaggg aaactgccct ttataaaacc ataagatctc atgagattta ttcactatca 180
 tgagaacagc atgggaaaat cccaccccca tgattcagtt acctcccccc gggtccctcc 240
 cacatgtggg gatcatggga gctgcaattc aagatgagat ttggtgggga cacagccaaa 300
 ccatatcatt ttgcccctgg tccctcccaa atctcatgtc ctcacatttc aaaaccaatc 360
 atgcctcccc aacagtcccc caaagtctta tttcagcatt aactcaaaag tccacagtcc 420
 aaagtttcat ctgagacaag caagtctctt ctgnntatga gcctgtaaaa taaaaagcag 480
 ttagttatctt cctaggtcca tggaggccca gggtattggg naaaaacgcc cgttgcaatg 540
 ggaaaaattg gccaaaccgg gtcncgncc t 571

<210> 8072

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8072

aaaaaaaaatc attttaattt ttgatacata ttaaaacatc ttagtcagtt cctcctgaca 60
 gcattaacac agacaaatac acaagacttc aaacatgctt taaaatgaca ttcagcaaag 120
 tacttaaaat ttaataaata gcaaatcaca cacagataca tttttcataa tcattaaact 180
 actaaaacag acagttaaag aataaataaa ccgcaactga cagtaaaaaa aaatatgttg 240
 ggttttgcaa ttcacactac ttaaaaaggg gggatgatct gaatgatttc ttaattttct 300
 tttgagagtg tagcatgata cccccagga ataaaatata ttgaaaaaat cactcttaca 360
 acaatgtatt ttttaaatat aacaaataaa tatgaaacca gcaaagcaat ttcaagttgt 420
 aataaaaatg tccccgccc ccagccaaaa gctatggaaa tatatagttg ctggggtagc 480
 aaataatagt atttaaagng atantgcttg ggccctaagc ttatttgaga acctngatn 540
 aatttagggg caantcctnn ggg 563

<210> 8073

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8073

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agtcagcatg acctctatTTt tattgattga ttgatggatt gattgagaca gagtttcact 60
cttgttgCct aagctggagt gcaatggcac ggtttcagct cactgcaacc tcggtctccc 120
aggttcaagc gattctcctg cctcacactc ccaagcagct gggattacag gtacccgcca 180
ccatgccaaG ctaatTTTTg tatttttagt agagacgggg tttcaccatg ttggtcaggc 240
tggtctcaaa ctccTgacct caggtgactg cccaccttgg cctcccaaag tgctgggatt 300
ataggtgtga gccaccacac ccgaccagca tgacctttaa acacaattgg acttaagaca 360
aatttagtaa atgcagattt ctggggggga aggggggaat cttcttttaa aatgcccata 420
tttagttag gtgaaatata ctgcttataa actattgata ttanccttga anaaccntta 480
ttgggtctta nntgaataat taaagcttta aaaaggctta taaaaatgca gganc tantt 540
ggg 543

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<210> 8074

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8074

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catattggga gatttttatt aacttaaatt gacattctta attttgtctg taagtccttg 60
gtatatatgc ctttatttga agcaaaccta caggtgtttc ttaatatgac agaatcatga 120
agacttgcag ttaatcagtg ttctctaagc attaaaacaa tgttcaaata attacaaagt 180
tacttcatca aaatacttag aagaatattc tgaggagtgt ttgaaagctc tgtttataaa 240
tagtgattga tacatttata atgtatttgg tgctgaagat aaacactttt tacataaaac 300
attgttttaa tatactgctc tactaatgag gctagttatt agatatactg tattttaaca 360
ctaaagaata aagctttatc ttcgatttta tcttatttat aggactctta tcaatgaaga 420
actttgtatc caacaataat aaactggcaa attgcaagtt acgttttgta ggagaagcaa 480

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aaaagactgg ctgcgaccaa agaaagaaga aaactggggtt atcatgcttt gnaccaacag 540
gncntntgn angggccatt aang 564

<210> 8075

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8075

aactgtttat actggtttaa tccatgtcaa atgtagttta caaagggaaa ggacaagtac 60
ctttgtatag aatatacaga cacagcatca caccacaggg cccacgggag ggtcggggag 120
acgacacttt ttccctggga aaggcagctc taatcccagg aatggttctc agcagaggct 180
gggtggccag gagcactgtc ctctagcccc ctaactcagc ctctgcttca gctcggttcc 240
catttcctgc ctctaccccc caactcctta taaagagccc catgagctaa gactaaggag 300
aggatcatgt cccttggggc gtgtgcccc aagtctgggag aagaaatata caccactgaa 360
caccgagcac atgggagagg gaaggacac cacaggagag agagaggcag gtaccccaag 420
aggtggatgg gccgaactcc cagccaaccc tgaaggaagc gctgctttca agggttctta 480
aaaagaagaa aatcttcaac caaaggggaa gggacnaggt nnaaggccaa gaattgnccc 540
atttttccca cattggaaca tncncggcta tttnaatggg ctttagg 587

<210> 8076

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8076

ctgtttcaaa ttctttatta tacatcatgg ttgcacaatt tgaggctggt taaatacaat 60
tggttttcaa aatctctttg aatattttct ggcttactac atgcaaatga ccatgaaaat 120
atttggcatt ttaaaattct gaaactctga ataggcactt acatgaagga aaacattacc 180

attcatagat atccacatgt agaacagatg ctccagcaca tgggtggtaca tggacccttt 240
 tgccagtaaa gttggttcct gaccatttta tcaaagtgcc atagtagtaa aacaggttta 300
 aagaaatgta atttgggtta tttagcttac tcataaagta aggttaactg acaagacttg 360
 cactgaagtg cataaaaaat attggtacaa aaaccaatga accataagtg aaagtagttt 420
 ccatacagca ggtttcattt tggttcctac actccacatt tagtgtattt gcgatcagac 480
 cccatgcata tgaatggatg actgcaatct tcttttttag aaacttaaaa ccaatgactt 540
 gnantanggg taaaaaattn gaaacttatg gnagttccat ttnggnta 588

<210> 8077

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8077

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 aggggctgca tttggtgagg gctttcttgc tggtaaggtc tctctgcaga gtctggaagt 120
 aatgcagggc atcatatggc aagggggctg aggatgctag ctcaggcttc tcttcctctt 180
 cttatgaage caacagtctc aattccagca taagccatta atccattcac agcaagaccc 240
 catttctaata ccattcatga aagcagatcc ctcatgaccc aatcacttct taaaggcccc 300
 acctctcaat actgtcattt tgggaattaa ttttcaacat gagttttgaa ggggacaaat 360
 attcaaacca tcttaacaat actaaatctc ccagcccatt aacatgaaat atgtattagt 420
 atattttcat gctgctgata aagacatacc tgagactgga gaagaaaaaa anggttaatt 480
 tggacttaca gntncacatg gctggggang cctcanaatc atggtganaa gccaaang 538

<210> 8078

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8078

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aatttttggg gccttttatt ttatagacaa ggaaaatgag gacaagagag gttgttttga 60
tggttccttag cagacttctg ggagaaacta aatgctgggtg gatagctttt tctttgccaa 120
atgcctttca ttgtttcctt attttccta tcaatagttt tcaacatttt cctttctgcc 180
ttgataccct aaaatgtgtt agaaaaacaa agatccacaa atttatgttt ttacaaattt 240
agaatatagc agaaaattcc ttaagggttag gtagtactgt aggtgatata aaaagaaaaa 300
aatctttgac tctggaaaat gttcagagat ccttcagag taacctgtt ttggtgacag 360
gtatctgggtg acagaagagg ccagcaggct gagtcatgca gtgacctgtt gggcttctgt 420
ttaacttttg tcanaagtgc ttatgttttc gagaaaatga ccacatttgg ggcangcctc 480
ttttacctca agtccccact tctggtcctt ccaggaaagg gcaaactgca aaggaggttg 540
aaaataggat ccttgatct ccttttccca aaangg 576

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<210> 8079

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8079

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gcaaacatta catgttctca tttatttgtg ggagctaaaa atcaaaacaa tggagctcat 60
ggagctagag agtagaagga tggttaccag aggccgggaa gggtagtggg gtgggtgggtg 120
ggagggaacc ggggatgggg atgataaata ggtacaaaaa aatagttaaa tgaatgaata 180
agacctataa tttgatagca caacagggtg actatagcca ataataattt aattgtacat 240
ttttaaataa caaaaagagt gtaactggat tgtttctaac acaaaggata aatgcttgag 300
gggatggata cgccatcttc catgatgttg ttattacacg tcatgcctgt atcaaaacat 360
ctcatgtacc acataaatat atacacctac tacaaccac atttttttt taattttatg 420
aaaaagaaat acattatcan gggacnaagt gttattttaa aaaaaaaaag ctgcattcnc 480
aaaaacggtc tttaaatcna aatangnt aaacccttn gagggacttt 530

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<210> 8080

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8080

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aagattgatt tactttttta ttaggagcac ttctcagggtt ttggcattt cacatgtcta 60
cactcagtgt ccattggctc cttctgagag tatccttgaa ggttcggtaa attttgcagt 120
gaacaagtaa aaaagggtg gtgtaggtac caaagccaaa aggggcaa at ttgctcaag 180
tttatccact ctggaaatgg agattattcc ataggcatga agtaaccagt ggctgaagag 240
aacaataagt cttttctttc tgaccagaag atcatagcag ttctctat tt cagaagcaga 300
catgtacaca gccagagtaa ccaaagataa cactaatata atgtatggga aggcgtaata 360
taaaaggcct ccaccaactg cctgaagcac gggttaaatt gggaagaagt aaagtgcagc 420
ataaatactt ttaaategat cagatttccc taaccacat gcaatcttct tnaccagaag 480
aagtccgagc agcatcttaa ttcccagcng aatgcgtaat agattaatcc catgggatat 540
antggggaaa ccgnttctt 559

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<210> 8081

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8081

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cagtttctgc attagcacta gtttcccaa gagtcttctc atgtaaatta cttcctttct 60
caattaaatt ctctgtaga gtttggtcag caatcagttt ttgtttaggt aacacatcat 120
cttttatatg caatggactc ttctgaanag gttttcttc ttccttacgt cgttcctttt 180
tttgatgact attttcctta tcttggttt cagtggtaga ctctactact tctgaacgtc 240
gccttgaana ccgtctaagg gttttctgat ttggagtta ctgaacctga ctatcctcat 300
ttaccatttg atctgctgat attactactg ggggtgtatt ctctttggat tccaaattaa 360
tttctacatt tttctcctct acagtattag tttccaataa tacagcattt tccactgntg 420

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ctgctttaag ctttgnattg gcatgctcca ttggttagatt cagaaaggat gaacctggat 480
 taatctggac cacaattctg ggttggatta aagccaaccn agnggggta attttctta 540
 agactaccaa tngcctttaa canng 565

<210> 8082

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8082

cicagaagca tgatttatta tgaccctaag ctgtaaaca tgtaaaagtc catcaacagc 60
 agaatggata aattgtgata taatcatata attgaattct atactggata aaaataaata 120
 aacttctgcc acacgtacta atgattagac tcacggacat gatgaaggta ataagctgta 180
 tatgaaagaa tacatgatat ataatccaat ttatagaaag gtttataata gtaaaaacta 240
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 tatgtatgga aatggaaaat gtgattttta atgtttataa caccttgaca gaagaagttt 480
 tgnctgctga aactngtaat aaaaaaaaaag ttggacttct taatgatttt ggctctaatt 540
 ggcctaa 547

<210> 8083

<211> 539

<212> DNA

<213> Homo sapiens

<400> 8083

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ttaactatca naactaaaaa tgagaaaatc caaatagttc tatagtanca ataaattatg 180
aacaagtttc cgtcacaaaa tatcactctg accaaaaatg actgtctttt gtcataaaag 240
ctacagctta agctgattcc aagatttcta taaaaatgag agtgaanaaa tttcttcttt 300
caaaatactc attatgccac caggttcaat gtaagtatgt tgtatataac aaagtagcag 360
tcaggatatt tgttgatgga tggctactcc ccaagaaatg acacattctt acgaacttta 420
aaaaaatagc aaagttgggt acaaaattct atttggggag cngggaaaaa acttgncca 480
tggttaattag aatatcaaag cntttcaaaa tcaactgggt ccaaggccat nnttaccba 539

<210> 8084

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8084

agacagagtc tcgctctgtc acccaggctg gaggcgaag gcacgatctc tgctcactgc 60
aagcgccacc tcccagggtc acgccattct ctgacctcag cctcccaagt agctgggact 120
acaggcgccc accaccacag ccggctaatt tttgtatac ttagtagaga cagggtttca 180
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taattgctat atttttgntt tgagtattta taactcaatg tagttagtaa tcaaaatcat 480
gctaaaatgg tttaatgggt ttagaatggc ctaaaaaggg catttcanga atatcatttt 540
aatccctgaa attttt 556

<210> 8085

<211> 540

<212> DNA

<213> Homo sapiens

<400> 8085

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atacccaa at catttctatt tggttttagg aaaaaaaca gatttccttt tcagcatttg 60
ttctgttttg gccaaataaa aattgttttc tttcttcctc taagctcacc ctacggcatg 120
tcaggtaaca aaagccagtc tgcccagcct tccatcttta cctttggaaa tcgagacctg 180
aatgggtccc attctttttc tgtaatccaa cagaaaatga aaaaaaaca aaaaccacca 240
aaactttttc cccctatttg ggattctaag aggacacatg agtcacataa gtgcatttaa 300
ctcagacaac tttagatcct aatgaaatac tagacaagag agaaaatggc atgagtggac 360
agttctccct cgtcacatac tatccctcat ggttgcatga ggctgcctgc tgatgagatt 420
caagccaact taaatgaagg gcttcaccac atgagaacct tcaatagcaa cgtttacatc 480
actggggagt tatgagacct gaganaaggc cagaaagttc cactgagana aagtcctttt 540

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<210> 8086

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8086

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gggtgtctaat acttttactt cccagcagca taataccact ttggtcaggt tgaaccactg 60
cacaattttg cagctctttc agaaaaataa tgaaaacaat tggaaagaca tgatgtacat 120
gcaa atgggtg agaaaatgat actattgtcc aatcctttcc cgtaa atgta aaatatacctt 180
agttcatctc caaactgtgt atttattata agcccttaca tcagggattt tgtttctttc 240
agtttttgta gcaccaaata gacacagcgg ctaacaagaa ataaatctga aaagtcactg 300
aaatatttat cacatgtcag aaattttctg gtctgtacct ttaaccatgt tcctggcttc 360
acatattcctt ctt aagagta agctataaca taagattgag ttcccaccct gtgtttgcta 420
ctgatgtgat ttgtttacca tgaataatac ttggtaata tcttttgat attactttac 480
aatttccaag tattttatgt acagtgactc acttagtgac tcattcattt taatggaatg 540
ggggncccca aaccn 555

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<210> 8087

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8087

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catggtcagc cagtctctag taagtctcta gggacatgac cagaccagaa gcccctgttc   60
tacatgaaga caaacagggtg gccatacttg ggtggaggga taccgctgct attcccagat  120
caagatttgg tggaaggaga ccatgacaga tgacaaacgg aacagtttct caaaaacaga  180
ggtatgaagt aattacacag gaaagaaaac aatttccaaa ggagtggagac aagtcgtgat  240
tcttcattgg tacctgacct ctatacccaa acagccttga accagccctt ccagagactg  300
cccctagtgg cccactgggc agtgcaggct gtgaagaaga cctgaaggca gatgggggtg  360
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atctgccgcc atcccccaac tccccccag acttctatca catttcaaaa tacatacata  480
aatccttaca tacagtancc agtctgggag gcaaaattcc cacanaagca ttgnttgaca  540
catgttgga attnt                                     555

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<210> 8088

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8088

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acattcttat aagtggttta ttgagagctg atttgtcaat caaagaacac accataatga   60
tggaatatt gatgatttca acataaaaaa atttaaataa ggncaatctt tacatagtaa  120
ttaggagcca cttacaagat gtatcaagca aacagagcaa gatacagaac agtgtgtggt  180
tggtttgcta ccatttgttt taaaagaggg gaaagaatat atatgtgcta cagacatgtt  240
tatatgctat gtgtactcct ctgtacatgt gcttatacca catgtatgtg catatctaac  300
tctgcacaac cccgggaaag gcaagtcgac gctgatgtca ttgctggctg aggagagagg  360

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tggtggctgt gggacagaat gggaagggac cgtatcccta cataatactt catacctttt 420
agctttgaac catgtgccat tattacctat tggaaaaata agntaaaaac taaaaatcaa 480
atnccccaaa agnctgnagc aattaaccct taaaaacctc ctttaggtta tcccagncnc 540
agtntactgg gactggcc 558

<210> 8089

<211> 559

<212> DNA

<213> Homo sapiens

<400> 8089

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ccttaagagt cccaatactt tgtaaggag gctcatgttt ctgcagtcct aattaaccat 120
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tgggggtcct tccagcaaatt aagactcttt tctgctgggt tcatgtgtgt ggccttgctg 420
gaagacaagg gtngggaatt ccttcctttg aaccctttt ccaaagaaac ccatggactt 480
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<210> 8090

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8090

ataaaggcta accatatcca ttgtcaata ttttcggctt taaggaaaat agtttaaaaa 60

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agaaaaaagc tggttttgaa aaccagatt tatacccaaa acatititit tctgtacaac 240
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tggncatatt tcagctttgc tctgagtcn ggnagatctt tagaaaggct ttccttaact 480
tcgttggttc tgcaaaaaac tntgactggc atgggcaggt tctggttgaa actggggaag 540
gcttggaac antggggaaa tnggcttttt aaggact 577

<210> 8091

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8091

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tgtgatgttt tgatacatgt atacattgcg taataaccga accagggtaa ttagcatatc 180
catcacctca aatatgtgtc gtttctttgt gttgagaact ttcaaaatcc tctcttctag 240
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acattagcac ttatttaatg tgaagttttt aatacaaaaa ttattttaag aaaataagca 360
caggctgggc gccgtggctc acgcctgtaa tccagcact ttgggaaggc naggcgggtg 420
gatcacctga gggcaaaaagg tctagacnac ctaaccacc attggggaaa ccccgncnt 480
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<210> 8092

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8092

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gcagcacaga tggactgctc cttttcaaat acttcagcca ttgtttgcct tgtcaactta  180
accaacactg taactaagga tcctactgtg atgttggtgc tatcttcac atctaacacc  240
tgtgatttta tatccatggt cacatatgga aaactcccaa ggacagccat aacctcttca  300
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aaatcctgga tagttttaat tttatacttc ttatgattag aaaccgtct aaaattgcct  420
cttcaatatg agggagctgc agaaggggag acttaaaatt gctgaagtcc ctgaacggnc  480
attgagaaag cttcatgcng ntttctangg atgccc aaag ttggagcncc aaacttcctt  540
tcttacgggt ncnggccatt ccattaaat                                     569

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<210> 8093

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8093

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agaattta atatgtttat ttgtgtagta ggaacattca ggtatataaa taaggtaa at   60
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tgttcaacat ggatcacgag tgcacagaga gagagatcag ctgcatttag tgaaacgcca  180
agttgggaaa atggcacagc agtagcgcac aggcacacag ctatctgggg aggctgtggg  240
gactgtcacg tggactctac acaccgagaa ctgcttcaag gtcgcctgtg tctgagtgcg  300
ggtaaagtga atatcaacac ccaggctatc aggggtgagac aactgaattc catcatgtcc  360
atccacttta caaaggggtg ggaggcacca tggagaaact gaccagaaat gctctgccct  420
gtcacagaag gagacaganc cnaggcagac acgngtgacc tctgggangc caagacactg  480

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gcagtgatng gtccattgg gatgcctggn acttccaaca canaacaggt tccccaaagc 540
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<210> 8094

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8094

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aggggaggca gggcagtttc acattttttg aaaggtgggtg gacgacaact acacttgtcc 180
ttaaagtaaa ataaaagcag gagagacca gcagagacca acctgatttg cagttagcat 240
cagaatctaa atctagtatc acaactttaa gaaactaaaa gaaaactatt agaaaaatag 300
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aatggctcca tggtcagtag aagaaaatat ttactggaga aaccacagct attcaggttt 420
gataataaac ccaaccctta ttggnatcat tacccttaag tgctccttaa ctcatggaac 480
tgaangnca acttaagcng gaacttatca tcttaataata tatatacttc tcaaattggga 540
aaataagtcc caacttaata ggctngcttn aa 572

<210> 8095

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8095

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gtgtcctcac atggtggaga gagagatcat ctctctgggtg tctctcctta taaagcacta 180

atccattca tcagggtcc accctcataa cctaatacacc tctccaagac cccacccccca 240
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 acacgttttt agcacactgc tgatgtccga caggcctggg tctgggacca gtgtgtacca 420
 acaagcatgg tctgtgggggt caactgtcac gctcctgagg aagacaatgg gccctgcttc 480
 tnttccancc tgtcngngct ntactgagtt taatttccca tcaatactgg aggnngnnc 540
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<210> 8096

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8096

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 gggacagttt tcagggtccc agttgcttcc ctggcttgaa atcacctgg tcctagcaga 180
 ggacaggtta aggctgccag aggcagaggg tccctgaccc tggcccggag acagactgcc 240
 caggcaggcc ctctgatacc atcttccaac catggcagcc tccaggaaaa gccagatcca 300
 tttaggagat aacaggaagg tggctgtgat tgacaggaaa ggcaacatgg ttcctcanca 360
 tcctgtctgat cacacctctg ggaggggctt gctggattga aagaggacct aagaatcttn 420
 ctgggacnag gacagaaatg ggatctaagt ctacttctna ctnacattcc cgcttgtgac 480
 acccanaaaa ctggaatngg tcttgcttca aattcccga agaanaaagg gattgacaaa 540
 ancctttggc ttna 554

<210> 8097

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8097

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caaaatattt tttaatgtga tgagtggctt gggaaatcct cgcctaacaa agtggctttt   60
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cctgaggcca gagtgtgcct ggggatatgg gggacgtgga gggcacccat gtccagccca 180
cctcagtgtt tctgcctcag tgagaagggg agggagttag ccacaagggg gcctgggtgc 240
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cacagaacct gctcgggcgc ttcaatactt gaanccctt agttgaaaaa tatctttctt 480
ccanttttac cangcccttt ncttttcaa tgctacagna cacccaaaca gtaggtcctt 540
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<210> 8098

<211> 572

<212> DNA

<213> Homo sapiens

<400> 8098

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attcagtaca gatgcaaagt agtagctcag aggctctggg taatagcatt cctgagattg   60
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ttggcctttc ctctcctcgc cattgggcca attccttcga tttctcattt cccttgaagt 180
tagggccatt cacagtttca tgggtcaaagc cagttccagg ttcaatagtc tgtgatttat 240
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agaaagggga tgctttatac catagaacac atccaccttc tagaacctgc tctagaaggc 360
caggccctca gattccacat gggttgagtt ctgggcaaag tccggagctt tcttcacact 420
cggctctcaa actctgggtt caaaaaaac tgagcatggt gagagaagac agtgtcaaac 480
cgaggcccct ggaggacctt tggaaccctg atagtctgnc ataccngaac ntggatttct 540
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<210> 8099

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8099

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caggtttcaa aaactcactt tattccaatg tgaaatgagg acgtgatggt ttaaaaacaa   60
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gaaacaaggt gtctggacgg accacaccca taagcggctc tccgcaaacc caggcagacg  180
cccgtctcct ccgggtctca ggggtggccac atcctcccc accagggtc tgacagcagg  240
cacagagcag cagcacgggc aggggtggagc gggagcagcg tgtgggggcc cccgccaccc  300
ccagagctag tctcagacca ggaaggagc tgggcaccag agaagcgaca tcacgtcggc  360
acctgtaact cccgggatcc gtaattgggc cccgttccc ccancctcgc ccccggccca  420
ctgtgcgttc ggcagctcag gttaaaactg angggaaggg atacattana ccgcagcccc  480
aaggttgncc cacttggttc anggaagtan gganccan                               518
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<210> 8100

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8100

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actgcttagt gacactttat tcaaattaca acccatagtt ttgctccaa aaaatgcaac   60
acctgagaaa ggcctgttgc tttaaaatca agaatctata aaagcaatgc caccctaate  120
ttaaggtagt tcttaggtat ttcccaaagc tctttgctct ttatactgc agcattttca  180
ggaggagtca ttagatactg tcaaggcca agaaataact aaaaacaaaa aataacctga  240
gactcttttc tgcaccgcca ccagctgccc agtacactag gtcacctttt acagcagtga  300
gcacagcaat ccatgccaca aaaatcctca caaaacaaga aggaaggta caaaaagaat  360
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tatattaaaa tggtaacata cacttgatg agggagggat atttaaaatt aaaatattat 420
 catcacaaga aacaccagat attccttgct ctgcccttgg gcaaccaaga aacttaaagc 480
 ctgntttata tccananaa taaagagaga cctgatanaa gttacaatgc tcaaagcttt 540
 ggaaccaggg naaattatac ccttggttaag ggaaanccca attttaaagn taciaa 595

<210> 8101

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8101

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 atccccagag gtgttttacac aattcccaat gaccagtgc gcttggaagg gactgaggct 120
 cgcaagtggg tggcacagtc ggctcttcag tggctccaaa gtgagcccct cacaacagga 180
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 ggtggggcca cggctgacct ggccccagag ctacaggaac aggcaggggc cagcttggct 360
 tgcaacacca tgaacaagc ctgtggggcc cttagtgtct tctccgcag agcccaccag 420
 aaacacttct gtgagtaaca gaacctggaa ggaaaagggg caagggtggg gccttgggtg 480
 caccgnacaa gacgtgcccc aagcttcttt tcaatngact ggcaccttcn ggcaanaaaa 540
 acccnaanc cttggggctt aaggtttggc ctttccaatt t 581

<210> 8102

<211> 569

<212> DNA

<213> Homo sapiens

<400> 8102

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tttaaaagtt gagaccctgc tttaaatat ttataatatt taaaaaaagg cgtttaaagg 120
 tgataggtga cttataaatt ttccactttc aaaatgggtt tctagacact gttgttcatt 180
 aaccaaaaac aaacaaacaa acaaacacaa acaaaaacca aacactttgg caagcaaagt 240
 attattagta catagcagct tcataacagt ttactttttt aatataaaga tttttcaatt 300
 tacacttgta ggagtagaaa aaactaatat gctaagtctg taagctacgc agcaaaaata 360
 atgatcttaa tgaagccaga attctgtgaa aatgtgcacc aactgcata tatagttagct 420
 gagtaaagt aaaccatgtg cttattaact cttctatata aaatattgaa cccccaagtc 480
 tnacacattg ncttctatgt ccacatnact ttctgaana caggctctgc cttaaancca 540
 tataatattg ccatttttnaa aaanctcaa 569

<210> 8103

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8103

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 atgcctacag gtgtgtgtgt cgctcctcac taatggatcc gtagtcatat agctgtgaga 120
 ggcaactcctg ggttgaaaat gaaggcaatt atcacattac tgtcagtcct gactgagtca 180
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 gtgcttttaa tcattctctna cccatgctaa gctgtgatcc cttaccaagn ctatgaaacc 480
 ttggaaaaan gagtgaaaan tcccccgagg gngtgtgng 519

<210> 8104

<211> 585

<212> DNA

<213> Homo sapiens

<400> 8104

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aaaaaatact tcttgctttt atattacat cttcccccat taggcctacc tgcatactgn 180
gcttcatcaa atctaagatc acctcacaac tataaccatta ttttaggcac cactaaaaga 240
cagtgtattg ctaacaaaac tatgataaac cattgataat atatccagat ttcagagatg 300
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agacacggta gccgacatat gcaatcccag atctctggag gctgaagcan aaggatcctt 480
gagctcagga gtttganacc cgcttgggcc atattcaaga ccncngaaa aatgtaaacc 540
ccgggtgatg ggcacacctg gggttcaant cttggggagn ttagg 585

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<210> 8105

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8105

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attttaaaat agtcaaaaac tatcttgcac ttttaatatit taaaataaaa tctataatat 180
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caagtcatac tgggnaggtga ggataaagct taatggaaca atcngggacc annaaaggct 480
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<210> 8106

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8106

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aagtagagat gggtttcacc atgttggtgcaa ggctgggtctt gaactctgac ctcaagtgat   60
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gactttgact tttccaattt tttcaatgat aatctttttt cctgataata tgttcacaat   180
caagtaatac cagggactgc tgagaagtgg atgatgaagg gtgataagat atagactgtg   240
cccttctctt tgcagctcct gagaggggat gggaagggat tttgggaggg tgagaaacag   300
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ggaggactan ggggtgggaaa agtgaccttc tgcttgagga tccagtccac ccttnacca   480
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<210> 8107

<211> 516

<212> DNA

<213> Homo sapiens

<400> 8107

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aatcctgaaa agtagacagt aaaacagctc ctgggagaat ttacaaccaa ctgcatgagg   60
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tcagtcactg tagcctcact gtatgatcaa gggaggtggg gattatttag tcaaaaagga   180
agaaggtagg aagaacagga ggtggaaggc tggggaggtg gggacaaaca gaaagtaaaa   240
ggtcattgtt gcctgtttga atccagaaaa aaatgcctgg ccctatggag gggaaggaag   300
ccccacagag gggaggcagt gggctggagg gaggcagccc tgggatgacc ccatccccag   360

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caccacggga tctggcgggg gcagangang ggccgaggca agcgctgggtg gaagaaccgg 420
caggggcctt cgggaacctc tgggtcacac tggctactgn gtacttttgc cccctttgtg 480
ttccccgant aacttcccna atcctaantt ccnnaa 516

<210> 8108

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8108

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agccctgaaa tgcaacagcc tctgagtac ttgagccgca tgtgactggg gttctgttaa 180
aagggcaggc tctccctcc tagccctgaa gcccaggaa cctgccttga aagacaagct 240
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gttttcctct ctaagggcac ctgtctgaac ttggagctgt gcttcactgg tgcctcatgg 480
ggcctggggc ctactnttca cctgaattca cacttttctc tataaggnat cangtggggg 540
aataagtcca agaangtgac aagaagcttc cgagcaacan acttggtg 588

<210> 8109

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8109

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atcaatcctg aaggatcatt tcaccaaata ggaatttgga gttgacagag ttttgttttg 180
 aggcagtctt gctctgttgc ccaggctgga gtgcagtggc aggatcttgg ctcaactgcaa 240
 cctccacctc ccgggttcaa gtaattctcg tgcctcagcc tccaagtag ctgagattac 300
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 tgttggtccag gctgggtctca aactcctgac ttcaagtgat ctccccacct tgggtctcca 420
 aagtgtctggg attacaggtg tgagccaccg tgcccagccc caagttgata gttcttctgg 480
 cactaaaaga cttgtctact tccttctggc tncatggttt ncagagagaa atccctgnca 540
 tctgagttac ttttcctct anttaagaat tcacttcttc n 581

<210> 8110

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8110

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 caaatctggc tcctggcagg cattcaaata attcttaaat gaagagatac aaaagccac 180
 tgagtcattt atgcaaata gatggagtgg cggctctctc cacaattccc agtacagct 240
 tccacttttc cctcaacctc tcataaagtc acagagtaaa tagaaggta gtttatttct 300
 ccagtcttga aattaacaat tttcaagaaa acaattatt agaataactg gtggagtcac 360
 agacatattt ctagctccat taggtcaaag gaaaggaaag aggacaagg tagaaaggag 420
 acaagccctc taagaaactg tccattcagt ctgtctgcag tcaatatgaa gagatagcct 480
 ttggagctac agaaaatatt acattgaagt ggattatgct tgctggtaaa gaagctgggt 540
 ccaccgagca gcagcnngaa gacgaagact caaatgtnc tgtagagc 588

<210> 8111

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8111

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 aaacaaacta cttgatncaa aaacattcag atattagatg tcaaaataaa tcagcacatt 120
 tgaaaatact ataaattata tttcaaaca atatatacnc attatgttaa ccttcaacag 180
 gatccattat cactacttan aacactgata tgtttatctc ttaagtatgt aaaaattaca 240
 tagctgttaa ctttgtatgg caattcacct ataacacatt taagaaagca ttacaaaatt 300
 cattatatga taattctaca aaagttttct cacatttacc aaagcctact aaagtccana 360
 gggcacaaat attggccaaa tagttctttt atcttagaca taaagatgtt tttgctgntt 420
 tttagaacca ttaagatggc taagagaacc aactttacga gcttaactgg tctcangcat 480
 ctgaatgggg gtgtggagaa gtctcaaggt tccaagaatc gcagntcctt ttttnggtga 540
 aaaaataaaa ccttggattg gangcattcc cgccaaangn g 581

<210> 8112

<211> 593

<212> DNA

<213> Homo sapiens

<400> 8112

cctgctcatt taattatttt tatttacaca actttttcca tcatcatgat gcaaataaga 60
 ttataaatac acaaacactg gagtacatgc aacacattcc acaaaggaac aaaaatgtac 120
 agcactacag aatagagaac ccaaattttt atatacaaag tgctttaaaa aaaaagacct 180
 tgtgacatat tcaaaccata tttatttgaa tactttccaa taattacat gggatacatc 240
 atttataaat aatatttaat ctcccctatt ttttcaagcc agaatttgtg tttcaactaa 300
 tcaagtgaac agccattcca ttatgtaata ttaaaggcaa gtcacatagc atcaaatga 360
 aaccggtggg cttcttgtcg tttttctcta tcatctgctt tcttttctg ccaatgtaaa 420
 atgccaatga ttgccaagat gaaaacacag acaccgatga gagctatagc agtaagcaga 480
 acaatattac ttgngnaag atcagtttgg gccttcaact ttganggaca ttgtganggg 540

atggaatgca attagctngg gaatttggaa ggattgcggc cactnttgnt ttg 593

<210> 8113

<211> 587

<212> DNA

<213> Homo sapiens

<400> 8113

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 aaaaatgtgg tgcctatgat ttaagtcctg atttgagcac atcttaattg gtgcactatt 120
 gcttttgata atccagatat aacaacaggc aagcagtaat aaatgaagag acttactatg 180
 tatcacacaa gcaaggtttc tgaattacaa ataacttcaa caatgacatc aaaacctatg 240
 aattaaatct taactcacgc ggttataaag ttaaattctc atgtgtctta gtgagaatgc 300
 tatcatcaaa tacattctaa attctttcat tttttagtgt acaaaggtta tgggagaaag 360
 gataagggtgc tttttaaata agctaccact gactcacaca catccataca cgcatcagtg 420
 caaactatga aaaacactaa ttttaaaatg aaataatgat tatctagact aaaaggagac 480
 tttggaatag aataattttc catgactaat ttggttacca atatngatac tcaatgnaca 540
 tattgtcacg aaatattcaa gaatacctt atcncctgggc nttaaaa 587

<210> 8114

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8114

cctgttataa agngatttta ttaaatingat tnggacatnc tgtaggtcaa ataatatattt 60
 ctgaanataa caattatgga ctttaaagct cgacataaaa ttagtagctt caaaagggtt 120
 agtcatattc cccagcanca gcatgataaa ataattcaac tatgtanaaa tatanaactn 180
 taggactagc tggaaactcg gaaatcattt ancctaangt tctcattttg agagaaaact 240

anactcaaag attaagcgat ttgcccgaagc tcacatacct aatagtaata aagctagaaa 300
 tcaaaccaat ttttctctaa actaaaattc tatcaatgat atttcaactg gctatcaact 360
 aaaagtctag gcttttctct aatgctccac nctattgtga catgaaagag tgataagaca 420
 ctncagtaaa tcgacttgng gaattcaggc ctggaggggg ctttgcaaa taactaagcc 480
 cgccctnttt tgtaaaaagg nggaaaagtt ctgaagggtc tccaaagctt gttaccaaaa 540
 agtctggatt aaatcccaan ttgcca 566

<210> 8115

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8115

ctgttatctg caaataagca ctttattacc aaatagttca gcatcagaac aagaattcta 60
 attccaaaag ggtttcttta cattacatga cattgtgaga tacacattag aagaatctga 120
 gactatgttc catttcagtt tctcttttgc aattaggtaa tttgttttga tctaaaaagt 180
 acaaatttat ctcattcttg ttaatgctgt ccatgaaatg taagtatcag ttccttctca 240
 gctagtgctt tatagttata ctggtgccag gttaagagac ctattttata gtgagtgaca 300
 tgaaagtcaa ctacaagaaa agcacattgt cattttcatt tacagaggca agtccctctt 360
 aacacaaaga aaagcaaagg accttatgtg attatgtaag gcagatcagc ccaggaattt 420
 cattcaaaga taatacttca tactccataa tcccatgtga gaaattaatg aatgactcca 480
 agtaaaaaga aaattaaaat tagcccttgg gccttgacaa ttttaattgcc agggcctttg 540
 ncaattctaa acaatggtct aaattancnc aattctcaga atgattacc 589

<210> 8116

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8116

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cattttaaca acatttatta caaatcacat tttataaaca ctagataaat tanntataaa 60
agctagacat aaatataaag aagcaaaaca aaaacagcag tactattaat gcaagagaaa 120
taagctaata taatatttaa acacataata cttataaaaa ttaccaattt ttcattgtta 180
ataatttttc ataaattcaa aagctattca gaaatgaaat gtaatacatt ctgattacta 240
tcaaagggtta gaattataga aacaaccata gcactactta ttttttaaaa tcgtttcaaa 300
cattcagaag ccaaagtact gtccttaaag acaaattaaa tgggtaaaag gtcttatnta 360
acagaagaat acaaaatttt aagcttttgt taataagata ataagtgtag tggaaatttt 420
taaattaaca tctcccttat atgtaatat cctgagttgg tggctcaa atcataaaga 480
acttagtttn tancctttat ataacattgc attntatntt tgaaaaacaa aaaagnnttg 540
gtnttt 546
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<210> 8117

<211> 594

<212> DNA

<213> Homo sapiens

<400> 8117

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ccttttagaca tttacaggta tttatttgag taagagctca taaaatatat ttttataata 60
tgcacaagaa aaaatacatt tgaatgaata aaaaataaaa tgacaggagg tgacagaatt 120
tagtgtttat aaatgaggtc ataaagaact ttaataattc agagaagaag ttcaaagtgt 180
attttaaagt tgagaccctg ctttacaata ttttataatt ttaaaaaaag gcgttttaaag 240
gtgatagggtg acttaataat tttccacttt caaaatgggt ttctagacac tgttgttcat 300
gaaccaaanaa caaacaanaa aacaanaac aacaaaacc aaacacttg gcaagcaag 360
tattattagt acatagcagc ttcataacag tttacttttt taatataaag atttttcaat 420
ttacacttgt aggagtagaa aaaactaata tgctaagtct gtaagctacg cagcaaaaat 480
aatgatctta atgaagccag aattctgtga aaatgtgcac ccactgcata tatagtagct 540
gagtaaagt aaaccatgtg cttattaact cttctatata aaatatggac cccc 594
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<210> 8118

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8118

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acagtataac cgttacattt tattattagt tattgttgtc aatctcttaa ggtgcctaata 60
tcataaaactt aatcacaggt atgtatgcat aggaataaaaa cagtatgtat aaggttttgtt 120
attatctgtg gtttttagaca tccactgggg gtctggtttt agatatccac tgtatcccct 180
gtggataagg gggtaactgc tgtatctttt agtagaagca agagcagccc catgtggggg 240
ctaactactgg acactgggtc gtttcagctc ctcatgcaaa gtgagggtat ccttgttggt 300
ccagccctgg ggccccctgc ggtcaccttt ggctccacag tctggttctt gaaccaagg 360
gcagacagct tgctacagcc caggcctgag gatgcacttc ttcaccagga cccacaaccc 420
ctgcccataga agacctgtgg agctcanggc atccctgatg caagttgggc angacctgcc 480
cagcttgcac caacanggtc tgcgtcttca tntgaccagc agacctgna ctnttcacca 540
ctggggganga ctaaaggntt ta 562
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<210> 8119

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8119

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cttttttagga ctattcaaag taacaaactt tttttgttgt ttttttttgt tttttacatt 60
tttgctctgg tcataaatat acagagaaaa agaggggagag aaaaatgaac aagtcacca 120
aagtatggag ataaaacagt attcctaagg cacgtggcag tctttgaaaa tacagaagct 180
ctagccaact taaattattt gttgtttttc ctgctcagc ccacaaaact gtacagtgc 240
acaaatgttg tgttgacaggt agatcttcca agttgttcct cgggccacac cgctgcatta 300
gccgggcgca cacttctttt ttttacctt gtttccagc gagatcctaa aatgtgggta 360
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agttagtgtgc tcaaagcctc tatttttaaaa tacacttgga attcaactaa agataattnc 420
 ttttttaaag aaattgnggg gtgaagggtt gcgagtcatt agaaaaaggt tggtaanagt 480
 cnttgnagg ggcttaaggt tatggccttc cagggttgcca gcccnaagt taagaccggn 540
 cnccaantt 549

<210> 8120

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8120

caagagacag ggtcttgctt tgttgcccag gctggagtgc agtggtgcaa tcatagctct 60
 ctgtagcctc aaactcatgg ccttaagtga tcttccttcc ccagcctcct gagtagctgg 120
 gactacaggc atgtgtcacc acattttgta gagatggagt ctcgctaagt tgcccacgct 180
 ggtctccaat tcctgggctc aagtgatcct ttcacctgg cctcccaaag tgctgggatt 240
 acaggcgtgc ctggccacag atgagaggat ctctgcagca gatagtactt gtgggtgcga 300
 gacctgtcca gggcttgatt tgaggagagg agcctgaggc ccctgcctgc tccctgggtgc 360
 tcaggagctg ttcttgggcc cctgttggtt cctccgctgc cggcccaact ggcggaagtg 420
 caccggtttg ggggtgaggc caaangcctg cantcttttg gcggctgaac tcgcattcac 480
 caagcattac antnggggnc caanaaccgc gccttnttgg gccttcttcc gctttt 536

<210> 8121

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8121

atttatgaaa cagtttattt ataaaaacag tcataagaaa gcagaaagca acttccacta 60
 gctatgtgag attttgaaag ttctcgaaat cagcttatgt aagagactat ttccaataat 120

aacagaaggc tacaaaaatg tcagacccaa atagtaggca gaaggtagaa aactaaaccc 180
 tgagaataat agtcattaag aagaccttga tgtagacatt gcatatgagc atggagattc 240
 aggaaggaaa ttctggatga ctggtggctg acaactttca aatataataa atagagatag 300
 gacttcaaaa gaacttcaat aggaatatat gattttatag tagcacctgg ccttacttag 360
 aataaaatcg tttgttacia ctaaagccag catacatgat tcgcaatagg agtaaacttg 420
 ctatagacat tcctgncctc aaatgatttt aaaacccaat tttctaagac ctcttggaac 480
 ctccagagac cacttggtta agttctggtt tatctcatat ttaaangctc aacacctgaa 540
 aagctcaggg attggaaaac tntga 565

<210> 8122

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8122

gttaataatt tgaagatggt tattgcattc ttttttgggt gggaaaaaaa tgtaacatac 60
 atttatttag cagcatttg tgaaatacac aaaacatgta actgagaaag caggaatttt 120
 ctattcctag tccatttctg aggactaaat catgaactgc tcccaatgta attaaatatt 180
 tcttacaata gttgggcacc aagttaaga tttattaatt ttctcctctc agtataggca 240
 gcaattcacc attttctttc agttcctaaa aataaaaaac aacaataata atatgtatat 300
 gcatatataa aaagatggaa acatctaaac aatcacagct tgtatgtata tctgagaacc 360
 aaaagaaaca cctattggat taaaactcca gtctcttaac actctcaaac taaatgagcc 420
 ataaaccctg aatacactat canggtaaaa aatttaacca ngnattcttg gncaagtgtg 480
 gnggctccaa atgtaatncc agcacttttg gaggccaggg tggcnaaaca ctgga 535

<210> 8123

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8123

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aggttctgcc agaccacctt ttattacatc agaaaagcaa cactaggcac tagatcttgc   60
aaaatatggtt ctgaccaact ctaaactgtc tgaagttata accatatcag taaggttttt  120
aatgaacaaa aaagttaa ataaactttc atatgcaaaa tagattattg tataactggc   180
aacctcagag ccaagtacta aattttcttc cacaaatttc agtggggatg gagtggggag  240
atgttagtct taatgagtag aaaacttaat ttagacttaa tatatagaaa acaaaaaactc  300
tgaggaaaaa tagcttttaa ttgaatagta tcttttgaaa taaacagctc aggccagccc  360
ctacaattct gaggtttata ctcaaccaga tctgggatga aaatgaagat ttagggttta  420
cagtacttca aatccatgaa tccagttgga agactaacc agtcaccaca tttccagaaa  480
ggggagtctc ttttaagggga cccacactt tttcggaaga ngccttgggt aggtcanant  540
cccttgggca caagttccac tggttacggg act                               573

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<210> 8124

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8124

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gggacggagt ttcgtgttgt tgcccaggct agagtgcaat ggtgccgtct gggctcactg   60
caacctctgc ctcccagggt caggcgattc tcctgcctta gtctcccagg ttcaggcgat  120
tctcctgcct cagcctccca agtagctggg attacagggt ccaccaagca cggctaaatt  180
tttttgtatt tttagtagag acggggcctc accatgttgg ccaggctggt ctggaactcc  240
cgacctcagg tgatccgccc acctcggcct cccaaagtgc tgggattaca gacgtgagcc  300
acagcaccca gccgggactg tttttactgg aggaggggga gaagacacac agtggggaaa  360
gcgttctttc aatatgcaga tgcttcaggg agaaccaaac tatttactg gtattccccg  420
taccaccgga actggtgctt ggagcggaag ggaagtgaga tcagtccant agtcaccaac  480
accattatta gcattgncca aaaagtcaan agccgacatn atggaataaa acacttgctg  540
gcaatttatn tgcccttttt naactctctt attttttaggn anat                               584

```

<210> 8125

<211> 605

<212> DNA

<213> Homo sapiens

<400> 8125

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aaggaatatg gttgcagcaa aacagaaagg atcccaaagt ggtaggggc cttgtctaata 60
gcatttctga aagtccatta taaagatgaa tagaaaagca aatggtaggt tttcagttga 120
cccagaaacc acacatagct ataagaaaca taattgngca tagttattta ttcattcaga 180
atgtgatatg ttggctagct ctacattccc agtctaccaa agaacagggc tgtctacttt 240
gctaaaccca gggtcctttc gaagctccca gtaggtgtcg ttagaaaccc aggcttctct 300
ttgattggca tcaataactt ttttaaaaaa ttttggnata tgttcaagat tggtttcttc 360
catatatcgg ctccgagaac tctggagttc ctctactctt gnttcttgaa gctggaactt 420
ctnaaattcc ttttccaaaa actttgactn ggccggaanc cggccgtttg ttggtggaag 480
gagatctttt agtcctggac tactcattgg gctcaanncc aaccttgggg aagccctant 540
ccagttcata gttggtggca tggaacctgg ctccaaagc nctttgcaaa nggggcncac 600
ccnat 605

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<210> 8126

<211> 508

<212> DNA

<213> Homo sapiens

<400> 8126

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agacaagtta cagtttaata atggtggtgg tgattgtttc tttcatttta ttattattat 60
ttttttacaa taagggtgta gcctttatac tccacacaca caaaataaaa caagtgtta 120
ttacgaaaag agtcctgcc cccacccctt agaacatcct gaacatagca attcaacaga 180
acagaaaaat caagacgttt gatttcaaaa tttcaataaa aaagcaaaag tatgtaatgc 240

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aacagctgtt caacttccaa ctctaaatag gcaccattaa acaaaaaacc ccagtatttt 300
 aaatttctcc agcacacatt ccaggatcaa tgctctgaac tgtaatcagc tagtaattca 360
 taacgggaat acagccttag aatggaagct atattgcttc cctgccccct ttntntacaa 420
 ttggaaagtg tanggattaa gggatccaan tcngaaggag gattatttaa aaggaaaatg 480
 nccaagctg cactgtttgg ctntggaa 508

<210> 8127

<211> 596

<212> DNA

<213> Homo sapiens

<400> 8127

gttttttagct gctttacttc caaaaagaaa aaaaggcata gctctctttt tcaattaaac 60
 agaaaactac ataattacgt tcaaacactc actgaagagc ctgcctcatg ggaagggcag 120
 ggctgtcgtg ggaagagtca gctgcacttt ggcaccatct caggtgcctg tccaagccgg 180
 atctgaatgg gactgggtcaa gtgaggggtc agtcctgcag tctgcgtca cacctcttct 240
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 ctgtggggac ctcaaagcgg tatgctgacc catctgaaag cttcagctgc atcaggacgc 360
 tcggctgcag ggagcgagcc agggcactgg tggagattgc tacatcacc gccaccgaaa 420
 gtcagcaaca tgcngnaacc aagccccctg ctgctgggcc cagaatcaag gangggcccc 480
 tggtttccaa ataccacgct tggcaagttc ccgaccaggt ctttggggga tgcaaaactt 540
 ctggancttg ggcccgaata attangcttt aggttgtggg ggcaaacgan ggcctt 596

<210> 8128

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8128

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 ctcaacatca tttacacttg aaaacagaaa agcncaactt ggtaaggcac caggttacga 120
 tagtctggan anaaggcctt gctcccattt tggcttgngt aatacctggg tagtttctct 180
 tgagtctgtc aagcagagaa caaggttata aaaggtccat ttatacatac atggtaacaa 240
 gagataacaa acagttttga agtatgctgt atttataaat tataatggng gcctacactt 300
 gtagttcagc caaagtgga tttctctaaag caaaattctt ataaaatctt ctctgcaata 360
 ccaagctgca agtttaacaa ttttttagct ttgaagtga ccaactttat atttaactca 420
 aacacatact ttaaaaacat tttcgggccc aaactntatg ttcacgaaga aaataaaaaat 480
 ggnggaaaat ctacaggttta atcggacctt tactattcta ttaaagccg caatntnttt 540
 taaaaaccgg tggcntttaa nggcaacccc ttgaatttta accctaccg 589

<210> 8129

<211> 418

<212> DNA

<213> Homo sapiens

<400> 8129

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 atttataagg ccacctaatt tgaaatcaca tatagaccag gcgcggtggc tcacgcctgt 180
 aattccaaca ctttgaaggg ccaaggcagg tggatcacao ggtcaagaga ttgagaccat 240
 cttggccaac atggtgaaac cccgtctcta ctaaaaacac aaaaatcagc tgggcgtcgt 300
 ggacgcacc ttagtccca gctactcggg aggctgangc aggagaattg cttgaacca 360
 ggaggtggag gttgcantga gccgaaattg ngccactgga ctncancctg ntgacnga 418

<210> 8130

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8130

acatgcctca ctttttattc caagaaaaat cccattatg caatacaagg gtgaaacagc	60
tgttacaaat acacagaaac ataataaaga taaccaacac tgtaagagg aaggggaaga	120
ggaaaaaacc caagagaagg aaacttttcc acagtgacta gcagaatgtc ttgtagatac	180
caatgaccga agacaaacag gttgctcact tcctcctatt tatcaagtca tcctatctaa	240
aatgagaata gttcatgcct aggataggct aactataggc ttgctagtc ctccttccta	300
atagaatgcc ctcagattat tcctgagcta tcaactcaagt cacagatact tcagaatata	360
atcttaggtt ttgtaaacag gaacatggtc aaaatgcaat acaatgggaa aatctctaca	420
agagaatgag atttggaaag ccatgcttaa agtctctgag ccacacaacc cttagaatc	480
ttcgagtacc gtttaatctc tcatncagga acanttttcc tttacccttg naaggttgtg	540
aanaaatgaa ttgcnttatt ntgccagaaa gctttcccat ggaagggna	589

<210> 8131

<211> 481

<212> DNA

<213> Homo sapiens

<400> 8131

aaagtgaana aatcttttac actttatgta aatgatactt aagtatgaca aagaggngat	60
aattcaagtt cgtaactagt aagtcactaa aaagataaat gcattcattc atgtaccaca	120
aaatcagaga agacacgagg acatgccgca gtcagtgaana tagccgagaa atcaacattt	180
tactagttat ttgttcccaa actattacca tgtgtgtttg gtatgttaac aatttaata	240
tccacattag gctaaacaac aagcacctgt cagcagtgga aacaaaaca ttttgatgct	300
aaaaaatata caagatattt agacgctatt tcattggttg tcaaaaacag tgactactgc	360
caaataatta aatttaaaat attgtgccag gtcctctcag ggaaatgtga aaataatact	420
gacgatctca ttgncattgc tggatattta ctggaattta accaanggn naagntntna	480
a	481

<210> 8132

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8132

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attnnnnatt taaagggtgt atgttcttaa atggcattaa aaagttacga aaatccatca 120
gtacagattt tagtgaaggt tgctccattc caactggtaa aacacagaag taaaatgcca 180
gtctcagggg atctcaaaaa ttcaggggaa gagtcagtat gtgttccaaa tttaaacaat 240
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cagaatattt gatattttca taaaatgtcc ttggaataca aaactaataa attcaatgaa 360
gtgccacacc gccaggggtt tacctgcaaa atctcagccc tgactgaaca aagcccaaca 420
attnnngtcca aaagggaggg ctggtatttt cttttccctg ataaagaaac cagtggagaa 480
agcncnatgt tcccttngc tnaattcatg gttaagggtt tttccccaag ancttgtttt 540
aaggccngct ngataagaag ccttcctttg g 571
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<210> 8133

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8133

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gtagagtatt taaatgactc actatgaagt gtgtcaaate aatgatagaa tgcatagaaa 120
agtggagata agtttggggg aagggtgcaag gtgggttaat gtgaaaaacg gtaaattgcca 180
gttttaataa caaaaatggt actaaacgca gatgaacatt aaattaatac agtataaaag 240
agaacagctt aaataaactg gtattcacat attacaatag caaagttatg acagaatgaa 300
ctgaagacac gaacagtttt gaaaattctc ttttcagcct acttccaaat agaaatagtc 360
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aggctttttt cctgtacata gtttgatgct ttgtctatac catatatagt agaaaaataa 420
aattcttttag caacctagaa acagttataa aaactcttaa aggttaattt ttctttgccca 480
gacatgccaa ttgttaaact gggccactnt taaattaaag cttttttgac cataggggtt 540
aagtaatttt nacaggggta gnaatcctcn tttnccgatt ttttttaaaa aa 592

<210> 8134

<211> 463

<212> DNA

<213> Homo sapiens

<400> 8134

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gaatcacaaa atcgagcacc acacagctgg gtgtcggcga cacactcacc atgacagtgt 180
tccacctcaa tgtagccact ctctgggttt ctgtcagct tccagatatg cacaaggtg 240
tcctcacctg cagagagtag cttgcccacc tcagaagcca ggtccagggc gcagatggcc 300
cgggcatggg cattgatctg gacatgtaga tttcctgtag tggcctcata tagatgcact 360
tgtccgttcc catagcctgc tgctatgatc ccctgccaca gctgcacaga ggggcacgga 420
actccaaatc ctggaatgcg ggtcaataat gtgaatnnnn nnn 463

<210> 8135

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8135

atggaagcta ttaagcttta ttttttaaaa actgaattgt atttacaatg tagaacaagt 60
ctataaaatt gatgtgcagt taattgtaaa aggataacac tatttggtta gaaacaagct 120
gcttcctctg tttatatattc cttattcttg atataaattg gagacagata ctatttaaaa 180

ataatgcttt ttaaataagta aaatatacaa gagattcctg agcataacaa aaatatcttg 240
 aaaatatgtg gctatttgaa gtataaaata gcaagtgtaa gaatagcatg attgtaaaac 300
 tactgtttga aggcttataa acagtacaaa atagtttgcc tttctgact gcataattat 360
 acattagtgc aaacaaaaat gtctcaaaat ttaatggcta caaatctcaa agatttgcag 420
 aggtgcgcaa aacatggaat ttcttttagcg tcatgcgaac tgaccagtc tcgattaatc 480
 cctttcaaac gatcttccan gnttncggat taatcttggc tgtaaagtgg attcgtcctc 540
 aaganaagna ttctgcttaa cgctgcctaa tctgggcctt tnttttgg 588

<210> 8136

<211> 573

<212> DNA

<213> Homo sapiens

<400> 8136

gccaaattga atcaacccca atgttttatt taatttaaag ttttaaaagg cagtgggttaa 60
 gcacattatg tatatatgta tatatatgaa tgtatgtacg tgtgtatata catacatata 120
 tatacaggaa accaaccctt tttcaacttt agccactgat gagctaggcc cactgtctag 180
 tgcatgactc actttctact tcttcatagg accaattcta aaagtaaaaa taaacaccct 240
 ttatcagttt aacagtaact aattgtgttt ctttttttta aataaataaa gttactaita 300
 aactgatcac atatggtaga aacgtagaac tcacacacac accagcacac acagtcccca 360
 atttaaaatg tgatgtatga atgacctata tgtacaaatg ggtgctgctg acttccccac 420
 cccaagcaga ggccatgaaa gactnccatt acttcaggga gtccccattc tctatgctgg 480
 gatggaggat gtgtggngtn ctngcacccc nggntagaac ttagaatgca cacttcccat 540
 gcgctgatnc anatgggggg tcaattctat ggg 573

<210> 8137

<211> 345

<212> DNA

<213> Homo sapiens

<400> 8137

gaaaccaaac cttttattca ctttaattca attaaangnt actgagcaag ggcttactca 60
ataaaatcaa caatgaaaag gccagctggc caggcaccgt agctcaggcc tgtagtccca 120
gcactttggg atgccaaggc aggctnatcg cctgatgtta ggagttcgag acagcctggc 180
caacatgggtg aaaccctgcc tctactaaaa atacaaaaat taggctgggc gcggtggntc 240
atgcctgtaa tcccagcact ttgggaggcc naggcgggtg gataaccaag tcangagatc 300
nanaccatcn tagccaacat gatgaaaccc cgnctttant aaaat 345

<210> 8138

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8138

ggatttaaaa acactttata gtgtgttgtt tttattgagc gctcacaccc gaaggggtgg 60
cggcggatgc tgtgggtgag tggggccgcc tgagcctgct cgggccacat ccacacatcc 120
acagagtcca cctggactcg gaggaaggcc gagaggacac ggacggtggc cacaccacgc 180
tgcagtgaag gccaagtgt gatggcagag aaagagggaa agttggagaa agagcggtat 240
ctgacaataa cttttctctt ggatgttaat tttttgtct ataaattgga aaggaaggct 300
cggactgaaa taaatacatt tattctgagt aatgaccttt tgggagcagt gtccgtcaac 360
tctgcttcga gagcgtctcc acgtgagcag cancgctgt ctcgcgcctn gccgaggcgg 420
aaccacaccg gccttcaacg gangcgggtt tctnctngnt cttgtgaang gaaatanacg 480
gtgcgtactg gtcttaatgg aaccggacaa tgaaggcctt ttnttttgac anaaaaatgt 540
ccggcctaac tntccaaga naaganttg ncctaacgtt tncgtttttt at 592

<210> 8139

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8139

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ctaatttta gttccaggat acaagtgcag aacatgtagg tgctatatag ataaacatgt   60
gtcatgggtgg ttgtctgcac ccatcaacct gttgtctagg ttttaagccc tgcgtgcatt  120
agctatttgt cctactgtc tgccctccct cgacccccac ccctcttaaa attcttttta  180
ttttccacac tgagtcttca aagtctgggtg tgtatcatatc agcacatctc aatagccaca  240
tgcaggcagg gcgcgggtggc tcacgcctct aatcccaaca ctttgggagg tcgagggtggg  300
cattggacga tgcaggctctg gacaagtgcc tgggtatattg tgggcacaat tcttgaatgg  360
accacgcca atgtacgcgt cgcttttgcc tgggcccgttc cttcttccta gaatgtcctg  420
cttctttctc ttgtctaact catgtgaatg aactttttaa aaaattagta tccttcaaaa  480
ctgnanttgc ttaagcgttc tgaagtgang ncctctgact tttcaagtgc cgggtgcttct  540
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<210> 8140

<211> 584

<212> DNA

<213> Homo sapiens

<400> 8140

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aggtaaaagt tgggtggcttt attcttcctg ctctataagc agatccaggc cctagaaaga   60
tgggaccagg gtatataatt gtttttgaaa agtgtgtctac aaaaatggat ggcctgttat  120
aagccaggat acaaagttaa ggatgggggt aaggaggaggga cattttcttc cagaagaaaa  180
gacagaattt ctgaagagtc ccagtccata attttcccaa aatggttga ggagagggtta  240
aaatctcaac atgagtttca aagtactgtc tctgtgaggg gccggtagat gccttgctga  300
ggaggggatg gctaagtttg accatgcccc atccccagct aggagaatgg aaatggaaag  360
tttattgccc agtgggtgtg aaagtgggct gaagcttggt tgggtactgaa ttctctaaga  420
ggtttcttct agaaacagac aactcanact cttcctctca cttcagcaaa gaagttattt  480
ttnaaagccc ttgggaaagt tcctcctcca cccgcangtg ggaaggctca aaaaaggggg  540

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cattantcca gccgctttta ggccgnaccg gaattcctga aggt

584

<210> 8141

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8141

acatttatca tgtaatttaa tctgcttttt tgnatattag cttttacata tagaatcggg 60
 tatctcagga tccctaatat ataaaagacc cgcataagaa aaaaacattt gatgatatgc 120
 ataaaatcac aaccacaata attggaccat aattagacta gttaagagat gaggaatata 180
 tgctcatttg taagcgataa gtgattatat aaagagaaaa catgggttaa gtaacacagt 240
 aacattaatt tttgtatata aacaaattag ttatctcaag tccttaaaag ttacatcta 300
 aaaaaacagg tcaagatgaa gaaataactt tgtagtttaa acttccacat gtgctccttt 360
 ggggtggtttt gccttggatt ttgcttctt tgaaatcttt ccattttgac attgagtaaa 420
 tctggctctg nagaacacacc atccacaaac ttggnnttga aaagaacgtt tgcattgggtg 480
 acatccttct tttagggacc cccatgaact gngaattngt gaaatgggtc cccanattgg 540
 ccatgtttgg gatganaaga ncaagnttct 570

<210> 8142

<211> 582

<212> DNA

<213> Homo sapiens

<400> 8142

gccttcttat tttaatagga tcatgtctct cactttacaa attctcaaaa catatggntc 60
 cctttttaca tacatatata aacactttta aacataaata tcaaatgcat gagaatcatg 120
 tgggcagata aatttaggaa gccaagaaca cagaacgaaa agccagtcac cagatcttac 180
 aaataatcat ctaaacttct ctggccattc aatttgatac attatcccaa atattccatg 240

tcacatggtc cacaaggntt tcttttggga ttctgaagca atcaatagcc atacttgtca 300
 ttaagatggg ttctgccatc tccactttga ctttcagggtg ggacccacac acagtagtct 360
 gggatcatctt caggatattt ggaagaaagt gttgggtggaa gtttgcctgg accangtggt 420
 ttctttttct tcaattcacc tctgcttttc tcatattcat tctttgatgc tganggtcct 480
 gcgcacaatg naatggggtt gctacaggcc tgganaactt aatccgggct tcctcgctta 540
 agtgaaacat ggtttcatng ggttnggggt ctttaaaagg gg 582

<210> 8143

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8143

ccagtttgaa agctntaaat ttactcagct tatactgaaa ggaaatgaag tctatgtcca 60
 aataggaaac aatgtggagt actgctgtgc tngnccttca ttacctgaga ctacagcagc 120
 ctgcattntc caccgggctc ggaggagtgc anatgcctga ggtaaagcc ccagggtctn 180
 ttcaacagta acccacccca ctgataagtt acatgatacg tgtgtgggtgc ctgtgagtgc 240
 ttctgttgga aaggcagggt gaaaaaaatn tgacaggatt ttatttgatt tctccgtagt 300
 tcttctcagg gtttatcttg atgtaaactt gaaatattaa gatagccagt ncagtaagaa 360
 atcaaaagaa tgggagacat ttaaaaactc tctatattct aaacttctct ttagngttgg 420
 aataattgta aaaaaaaaaa aagttggccc taagtctgcc tttatagggg ccacattaat 480
 ttctaaattc ttggatttct aggttaagtca gggaaaaggc aatttnttta acaggcagcc 540
 cnatcaaggg tgcttttanc cctggaacct anang 576

<210> 8144

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8144

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gatgtgcccc atcaattctt ggtttattct tttccaaaaa gtaaaataac caaagnctta   60
aaagtacaca aaacagacct tcatctttgc attcctttcc aaataaaccc aaaaagtatg  120
tacagcatgt ttaatagtat gcaatatgca aaagctttgt gttgctgtta gcaacatcta  180
taccacacca cctcttttat tcacaagtgt acctctgcta accataatta catcactaag  240
cctgttagtt tgagaggggtc ttaaatttgt taaaactgga aaatctttgt atagggggtc  300
cattcatttg actcaagggt atagacttcc accgtattca gaaattcatt gccatccgaa  360
tcctcccact gcataaatgg ngtcctaca gttgcaatcc cagcattgct ccttggtgaa  420
gcatatttcc catcatcttc cattcatttc tagttgggat catacatttt ccacaactg  480
atggcatgag aaccatcana ggnccccaca tncnaacagg gtttcntta agaacagnca  540
cttccagttc ttgcctagcc cnc                                           563

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<210> 8145

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8145

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caatttattg ctagaatttt atttggttgt tagaaaatct gtaagggtgt atatataatta   60
aaaaaagggt tggggtgaga gtggatggaa ggcagtcaga agggtgagag ttattttcaa  120
gttacctaaa gtgccaggct aatttgtttt aacctttcca agaaagtgaa actgagcata  180
agctataatg agataagggg acacattcat gggaaaagac ttcattctgc ttttaactaaa  240
ttttaatact tctggaaaaa aaattttaagt ttggttaata ccaagctgaa catcatataa  300
agaaaaaaaa aaacagccct taaatgttta aggggtaccgg actgtatcca tgggtgaaggg  360
ctacctgaac aaagttaaaa aggaaatgat ctccactaaa gaagtctgtg gcatgacagc  420
tttctctact ttctccctga cttggcctat accaaagtta agtttttggga gtttttttn  480
cccttcaagt tgttgnccaa aaactgnttt ttaagaccac ccagcattnt agactcacct  540
tcccgaaca tggaggnatt attccttcaa ctanggaa                                           578

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<210> 8146

<211> 563

<212> DNA

<213> Homo sapiens

<400> 8146

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caggctgaag aaatcgttta atccatttta aagaaatctc acatgatgtt ctgtcgggat   60
taaaaaatata cacggaaaaa aataaaacaa aatatatacn cagaaagaag ctgcacaga   120
gtcaggcgtg cagcaacgtc acacactcat tcctttctgt ttctctgga cactcaaaat   180
gtgaaagcaa gtaagagggg ggtggttaac caaacctttt ggtccaagga ataaaatttc   240
tttaaaaaat ttaaaacgtc aaaacctgcc agaataagac aatagaagag cgtatcgtca   300
ggcgctggga atggcaccac gacaaggcat taatgtggat tcacttgac agctgctctc   360
ataaaagcta cacgattcag aggtaacctt aactatccgc aatccaacc aaagtcatgt   420
tcatgccgct gncctantct gggacaatca tctgcactta ttcaacacag nttnttccga   480
atgggccagt cccagcaaca agggtnattc agcaggcgtt tttaccgga ctcatgatgg   540
gattcatttt naaatncttn nac                                           563
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<210> 8147

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8147

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gtttttaatc aatacatatt tattgagtgc ctactgtgtg ccagggtgcac cacactagat   60
gcaacggata ctaacagtaa ataagatacg gtccctgccc tcagagctta catttcaaca   120
gttttaaagt catctcaggt atttcagata acagaagtaa ttctaccact ctcaaatttt   180
tttttttaat gcaagacaca acacaatcat aggccagagt tataaaatac aatgttagaa   240
agaaacgttt ggtatcattc gtccagatcc cattttacag aaaagaaact acaggagtgg   300
ccatttgcac ctatgttctg atttcaagtt tgggtgtttta cccattgccg ggcctctcat   360
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aaaacaatat tcagatttgc catgtatata tcaatatcca aacgctggta gtatacctgt 420
 gcaagttgtc tcctgctaga caaggacat ataatttata gcttatttaa gtgtccactt 480
 tctttatccc atcctattct ttggggataa accngaagg atcanggtta acccaaggct 540
 taacttttgg ggcaacttta ttgccctaag gattcaaaan gggccaccgg n 591

<210> 8148

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8148

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 taatgaactc tcaaacaatcc atcacacagc ttcagcaatt accaatttat ggccaatcct 120
 gtttcatcta tgtactcaat taccacacac tcagatgatt ttgaagcgaa taccagtaac 180
 atatcatttc acctgtacat ttttcagtat acttctctaa aagataatca ttttttaaaa 240
 caacataacc acagtaccat atcacatctt aaaaaacaat aaatcaagaa gttatatattt 300
 tatttcaaat tatgtaacaa ctggggacac aatcaatata tttcactggg atcatgagga 360
 agagtgtcac actaaaatgg agtccaagct tttatcgatg caattgcttt ataataataa 420
 agaaaaaatc aaacaaacta gcatattaga accacttttg gnaatttgta aggagctgaa 480
 gactgntgat atcccatncc atggngaact ccgtagaatt cttctaacat ctttgnnatt 540
 tcttaaaatg ggtctggagg cactgatgca agncc 575

<210> 8149

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8149

gagatagagt cttgctctgt cgcccaggct gaagtgcagt ggcgcaatct cagctcactg 60

caacctccac ctctctgggtt caagagattc tcttgccctca gcctctcgag tagagtacct 120
aggactacag atgcacaaca ccatgaccgg ctaatctttc tatctttagt atagacggga 180
tttcacatg ttggccaagc tggctctgaa ctcttgacct caagtgatca gcccacctcg 240
gcctcccaaa gtactgggaa tacaggcatg agccaccatg cccggccagg aagattttca 300
aataaatggc cataattcag tgttctgagc tctgtaacaa ggtgtacact aagtggtagg 360
ggagcagagg cagggatgtc tgtcttatcc tagagggaaa gacaggggca ggataagctt 420
tttgaggaag aagtttgagt ctaatcctta aggaagaaca tgttggaac atttgagact 480
nttaagcagt cacaggcaca tgggaaaagg nagtttctga ctgcaaaaata aataccggtg 540
ggagaaaagg gaaaattgac tggatttgga tgacccgnnc ctttaaattt c 591

<210> 8150

<211> 597

<212> DNA

<213> Homo sapiens

<400> 8150

ctttgtttat cctctctttc ctacatgata tctgctatct tctgattcct gtttctctga 60
aacattcagg aattaagtga cgaacgcaga gaactgtaag ccgccttggc ctccaataac 120
ccagtttcct tgtgaggctc ttaacatctc cacacacaca cactcgaca cacctgatgt 180
ggaaatcaaa ggaaaaagaa aacaaagcca aatgttgtgt taatcccgcc ccgccccaca 240
aacccttaaa gtcttaataa ggaaactagt gttctgcttt ctcatataaa cacagaaaag 300
gctcgataca atactaaggt ggatacaata ctatgtcgca caaacgtcgt tgagtgaggg 360
gcctctgctc ccagtccttg aagttctgca aaggaatcac ctactttcac gagtcacctn 420
acagatgccg gttgccca gcccgggang ccatgcacac gggcaggcgc cgtgaacatt 480
ttcccgtgcg gtaccagact ttgnggcatt tggctttaag tgctgatggg gcnggggtggc 540
nttnaggacg gcaggagccc cntaatgatn tgggtgaagt catgggctcc tccccn 597

<210> 8151

<211> 564

<212> DNA

<213> Homo sapiens

<400> 8151

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aaaattaaaa atgttttatt ggctattgcc tttaatagat ttactacaat aaaggaaagg   60
aatatttttc tcaaattgtc taataagaaa aagaccagg aaactgaacg atattggaca  120
cagttttcag tgttttagac ataaataaac tcatgaattt catatggatt ctggaatatt  180
taccactact cccctaacga tgcatttagc atagaacaaa aatatgaaca ttggaacaag  240
tccaatctaa cacatttcaa aacaatcaga tctttggaaa actgttttcc ataagtaccc  300
cttgccattc atggaagagt tatgaggatg cccatgaatt tattcatgga cactcccata  360
ctaagaaaaa gaaaaccatg tagatgggta atataatttg actatttgtt cccgccccaa  420
cctcaagttg aaatgtaatc cccaatactg gaggtggggc ctggtgggaa gtgtttggag  480
cacaaangng gatccctcat gaatgggctg ggccttcct tnggggaaaa agacttcttg  540
gtctgaagcn tgggccnnnc ttg                                           564

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<210> 8152

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8152

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catggtacaa atgataaatt atatttatac agtaaataag tatcaacggt caacacaagt   60
tcaaaaccag ccaccggcct ntgggactga naaacagctg ggtgatttcc tccaccagg  120
ngcccatcag gagggagcac gatggcacag gtgcaacatg cgtggcagtg gccggtggct  180
tcatgatcag tgcagtgggc aacagggaca tgcactcggg atggcctgtg ccanaanatg  240
gggcaggggg ctgtcttctt ggggtcccgt ggcccagtggt ctgtcatgtc ggggcctcaa  300
agtcacatca tgaaagactc gttacaaaag aatcactgac cccaagtagt cgagtctagt  360
ctactgacct gtaaggctgg cccaggccct gcaccgtctg aaggaaagca ctttctggg  420
caagcatcct gcctcccatc ccattgnacc tcccaccct tccccggcag acnagaccac  480

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ccccgggtta ccctaatggc aacgggagcc taaaaccanc cnaaggctgc aatttttgga 540
aaagnggntt ggtangaacn ttaaaccggt tctnggga 578

<210> 8153

<211> 578

<212> DNA

<213> Homo sapiens

<400> 8153

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ccagagagaa cactttatac cataaaataa acttgtataa ttggggagga caaatcatct 120
caaatgtata tttttgaatt atgtgccaat ttataatta gtacaaaaat gacagctgaa 180
atattttaaa aatgtaaaaa ccagtccagg caacataact ataccatctt gctgtaaaag 240
tacttatatc gaattccgca caaatatatt ttgcaatatg cttaaatttag ttcttcaagt 300
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aagatgttga tatagttcag ctctgttatt aacagagttc aaacgtccag caaatcctg 420
atgttttctg gaattggcag tattgattct attactccac aaggataata acgacactgg 480
ggccctttng atttttcccc ttgnggagtt catccatttn accanggggt ttttggttgg 540
aaggtctngg gaatcagcga actttataat cnagcttn 578

<210> 8154

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8154

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tcacagacct atgtaatgct acaactataa gactattaga agaaaacata ggggttgcta 120
tagtttgaat gtatccctta aaaaatcaca tggttgaaac ttagtccctc tgccttcatt 180

aacagattaa ttaataaaag ctttgccctc atacatggat taatgtcact atcatgggag 240
 tgggtttgtt cttgcttgcc ctctcaccat gtgatgccct ctgccatatt atgacacagc 300
 aagaaggccc taaccaaag ccaggcacca tgttcttaga cttctcagcc tccggaacca 360
 tgagctaagt aaatttcttt agaaattacc cagtctgtgg tattctgttt agtaacagaa 420
 aactgncttt actaaagaca gtagtaaate tttgtgacct tggggtaagg caatgattcn 480
 tagatatggc tgcccaagtg gccaaaaaat ngataactgg acttcatcaa aattaaggtt 540
 tacattcaaa agatnccntt annaaagtta aagaccaccc ccgaatggga gattt 595

<210> 8155

<211> 590

<212> DNA

<213> Homo sapiens

<400> 8155

gaataaataa gcatcaattt tattgaatca tgaataattt aagactggta caatcatcag 60
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 catgacaaat gaaaattaaa taggtaggaa gagagagaga ggaggggagg aggaagggga 180
 gggaggatgg aaacataccg tacacaaaat actcaattcc tagttttctc tttaaaaatg 240
 gctagaaaaa attcatcaaa atgcagcact ttaatcaatt attacaatt tctatgttac 300
 aatgaaaaaa tgtacatctt atagaacata tttcataaaa ctgctccact ggaaacaact 360
 agatcaaaac agcaaacctt ccatttaata tccacaaagt tggattattt ttcctttttg 420
 aagtaagatt cgccccaatc aaatttgaat nccgagaatt ttggaagtta agcctcaacc 480
 accaagtaaa agtccccaag atccaccaag atctaggcag gcttggctct gtccaatcca 540
 cccancccta atgaacttaa agggtttcca ttcaatattg gccggncatn 590

<210> 8156

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8156

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aggtattcat tctgtttatt ggattgaaag aaaggggaata caaacgactg gttaagtgtc 60
gcgcactgac atggaaaaag tgtctttaaa aaaaaatccc agtaaagcaa atcaaagtta 120
atgtagtttc agttgaacaa aaatttaaag acgtttaata cattacacat ttataaaata 180
aaagtcaaca aagggtgttt tgtaaataat tagtaaacaa gtgaaaataa atatcagaga 240
cctgaagttt ttatacttta atgaataaag caaagaaatt taaactaagt aaatataatc 300
tgagaggcag ttaaaaaaac aaaaatcaaa acccaccaaa attgaagaac acaatctttt 360
gaaacattta atcagtccat agcaaatagt tattacatac caaaaagctc taagtgttaa 420
ctagttcccc acaatgnent gtaaactctg acaatttaga aatcttgaga tccacactta 480
aggtcntttc ttgactctac acttgggttg taagtccttc ctgcttttgg ggactattcc 540
cttgacaccc cccntttca agnggccata ctttttcat tgggcctaa 589

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<210> 8157

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8157

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gttagtggtt cttttattat aaagcactga aataagttaa ataaacaggt gggaggctgg 60
gcagtccccc agccggtttg tccacagccc ctgggggcag tggaggtgaa tacaggcccc 120
ttctcactga gtcatagaag tgcctcagtc aaggcaaggt cccctgggtc atatggcccc 180
ccccgccc at ggggttgggc tggtccttat agtgcctacg ttagtctgtg tggagcccct 240
ggccagcggg ggagaaaaag gtggcttctg gtccgtctgt ataaaacatg gggaagaagg 300
acctagtcca ggatgagtct gtgtggacag cccggctgcc agcagtcccc agggctggtg 360
ggccccgaga gctcaaaaca gaggggtgggc tatgaggtgg ggccagccc tcagaggcan 420
agagaccagg cccttctgcc ccaccgtggc catgcacctt ttgtggcgct tgtaattgtt 480
ccaatggccn tggatataggc ncagtingcac aacngnaagg cttnt 525

```


<210> 8158

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8158

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aaaaaaaaa aaaatttatt ggtgacgttg aagaaaaggg ctgaggggtg gatggctgga   60
gctgggggcta cgtaggcggc ccctcctggt cticctgctg catccgtgcg atcagctggt  120
gccgctcggc cgcctggcgc atgcgcatca tgacgaggct ctcgtagtcc ctctctgaca  180
gcactgagcc ctttgacagt cctgagtggc tgcggccac ggcatcctgg ggctgtccct  240
ccaaccagga aatcttcaga gggttatcca ccaggccaac ttcattctgg acagccagct  300
ccgctgcctt gacggttgca aactccacca cagcagtgcc tggcttctta ctggaagca  360
ccaggttgag aacctacca tacttctgca aaagcccgtg ggangacgtc tttggagtaa  420
ccaccttttg actcatctcc ttcttgcaact tncatttagc ctiantttgg ggggtccttg  480
gccttcaata ntttctggct ttctntnaac ttinggcacg ctctggggta tntgttccgg  540
ataa                                                                    544

```

<210> 8159

<211> 592

<212> DNA

<213> Homo sapiens

<400> 8159

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atatagtcac tgtttatttc atggaaactg aagtctctgt gagggctgag cagcactggc   60
attgaaaaat ataataatca taaagtctgt gtctggacat cgcccttggg aactagaagg  120
ggagttggta ttgtaccagc tggactaagc tccagttcta gacctcctgg ctcatccaac  180
atgcctccct acctaaataa aagtgaaca ctacgtgcat gtcccagccc cattctccca  240
agcatgggag tgggcgtagg agtggaggag ggggaaggaa aaaggaatta cttcacttac  300
acctatgatg ccctttgccc aagccagaag aaagcaaagg ggaaaagggc tgcagggtca  360

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ttatttattt tcacttgaac atggaaagaa agtgtcacac tcccccttcc ctttataggg 420
 ggaagtgtat tttaatcagc aaccctcttc ttccatncac cctgngnatg tgtgacccat 480
 ttaccacccc agttgggang catgactagg ctgcccantc tatctggtcc tcctttgaan 540
 anggtttgcc aaatgggaaa aaggaaggac ccnnttaggc aaaggttcaa ct 592

<210> 8160

<211> 438

<212> DNA

<213> Homo sapiens

<400> 8160

gagagcacia ctccaaatca tcttttatta atataaaaag ggcatattta gcaaaagaca 60
 cacagataaa agagtcacta tggctcagga cacaaggcag ggaggtgcca ggcctgtgcc 120
 cctgctgggg gagaaggagg ctgaggacaa agtgggagaa gtgctgggaa gggctgagcg 180
 gtaggggcca caaaagticc ggtgggcaac actgtcggca ggtcatgggt gggactcatg 240
 gggacctcgc tgctaactct tgttgtgggg ggggtgtcctt agtgctgcca cctggagggc 300
 cactccttgg ttcctggagg ggacccacca agggacacag gacaggaagc ccaggatggt 360
 tagtgcaact cgggatgaag ccanggagaa cgggtgtctt gcaatggccg gataggtcca 420
 gacgctgagg ccnnnnnn 438

<210> 8161

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8161

gcatttcaaa tatttcaata gttttatttc gcaaagagaa gcctaagaat ttttttaaaa 60
 acatttccag agagaacact ttataccata aaataaactt gtataatttg ggaggacaaa 120
 tcacttcaaa tgtatatttt tgaattatgt gccaatTTta taattagtagc aaaaatgaca 180

gctgaaatat tttaaaaatg taaaaaccag tccaggcaac ataactatac catcctgctg 240
 taaaagtact tatatcgaat tccgcacaaa atatitttgc aatatgctaa atttagttct 300
 tcaagtcact cttcactgcc ggctggcttt tccattttct gntgnctcca tcccattttc 360
 ctctttaaga tgttgatata gttcagctct gttattaaca gagttcaaac cgtncagcaa 420
 attcccggag gtttctggaa ttggcagtan tggatctatt actccccaag ggtaataacg 480
 acctggncct tttgattttt ccctgnggag ttcaccttn aacaaggggt tttgttngaa 540
 ggtcttggga acagcgaact ttataatcta gctcc 575

<210> 8162

<211> 581

<212> DNA

<213> Homo sapiens

<400> 8162

ccaagacaga gtcttgctgt caccaggct ggagtgcagt ggcatgatct tggctctctg 60
 caatctccgc ctctggatt caagcaattc tctgcctca gcctccaag tagctgggat 120
 tacaggcacg caccaccaca tccagctaatt tttgtatttt tagtagagat ggggtttctc 180
 catgttggtc aggttggctc caaactcctg actttgtgat ctgcccgcct cggcctccca 240
 aagtgctgga attacagatg tgagccactg ggcccagccc agaacttgggt tttatccacc 300
 tctggtgaaa catgagctca cttggtgctc tctggcctct ttattcccat ctcttaggc 360
 tgaccctgac aagcgccagg gccaggcttg gaccaagcag tcaactgagt cagcctgccc 420
 tgggaaccag gcaggggaag gagcttacgg acggctangc tcaggaaaag ttagaaagaa 480
 cccgataaag gcaaaattcc tggccgaaag gcacttaacn taaggatgga acctcttggt 540
 gccttgaagg gccgtaancc tgtttgnctg ggggatgact n 581

<210> 8163

<211> 591

<212> DNA

<213> Homo sapiens

<400> 8163

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aaataaatta aatttaattc aatagaaaca cacacattgt tactagcata agtaacaaaa 60
acttccaatg ttttaacaaag taagtaaaat gtgataagca tgtacagtct aagaattttc 120
tacatgcatt cttgttaaac tactactttt gctttgttca gactttataa tacctttctc 180
caaacagctt atccttgatt tttttaaaaa ttcaaatacc cacaagtttc agtgaataga 240
ttgtgaaata aagactatit ctaaaaatac cttcatgttc acattctgac agagtaaaca 300
ataagaattg agaatcaaga ggctatgtgg tttcaaaaac ctaaaaagaa acactgcagg 360
acagatcttt tatgagtatg atcttttgnt ttgntttctt acagttttgg gtaaagcaaa 420
atcaaaaggg cacactaaga gtaaaacaca gaaataatcc tttaaaacaa ttttaagtta 480
agcngggact caactttacc atgggctctg gtaaacact ttggtcattc taccncaa 540
cttcaaaatg gaaatagggt taataggatt ttaaaaaggt nggctgatgg n 591

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<210> 8164

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8164

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agcaaataaa cattttatit ccacagcacg ctttcctct tcccaaagaa catgagttca 60
cctcagccat caaagcagag ggcgaaagct gcaagtgaca aggcaagagg ctccatagaaa 120
aatagattat acccaaggct ctctccttg ggacccaaac cgtccccag gctccccctc 180
agagcttgcc aatggagtg aaaggcatgg aaaggggctg ggagaaaagc cagctccact 240
gaacaaaggg gagaggagcc tggcagtgag cagacctggg aggggtgtgg ggtgggatga 300
gctttgctcc ttggttgagt gctggaaaag ggaaggggga agaaataatt tatgttgatg 360
taattaatgt aatgatgatg taatgggtcg tggtttcaat catggcgacc attccagatc 420
tctctcaagt gaactaaatt ctggcccggg ctgttgagca gacatagtag gtgaaanaaa 480
gcttaacttg gaagcccnga ag 502

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<210> 8165

<211> 503

<212> DNA

<213> Homo sapiens

<400> 8165

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agctagtatc ttttattgtc agaacttctg tgagccaaca aacagttttg catggttgta   60
cacaaaggga caaggcaaat ttcttttttc gtgtgggtag acttagttgg cccaagtcct   120
taaaactttt ccatataaaa ataaaaagtc caagaccaga ttatttttct tctggtcata   180
aatgctgatt tatttacagg tgccttggtc agaccacat tataaacttg ggataaaata   240
tgtgtgtatt aaagcctcag catttaatgt cagggtcctt tgaagattca ctcaagtgtt   300
aagacgtttc tggaatgcag cgtctctccc ccatagtcaa catggttatt atatctgtaa   360
tctatccaga atgatagaag ctaaccttcc aagtaacact ttgtttttaa cttaaattctt   420
ttagacatga aagactccaa aatgacttca ttcttgggtct aaaaccagcc tgggagccag   480
ctgntgaana atggnntata aat                                         503
    
```

<210> 8166

<211> 500

<212> DNA

<213> Homo sapiens

<400> 8166

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gcatgtaact tttttattga gggcacaaca aggcatgtga acttgcctgg acttgaggca   60
gtcagtttag taagctgaac gttaatacag ttaaggatta agtgcaaaca atatacatc   120
acagcttgac tagcgaggct acatcacaat ttataaagtg ccagattagt gctaattgtc   180
attcagcttg atttttcacc tcaggaagga aaacaaaaaa gtaaggacct cctccctcta   240
ggaacaaaaa cattttccta aaccaatcag tcatgagggc aaagactact tttccttcaa   300
tcccactaat tagaacacca tccttttatt gncaatactg tactgacttt caatcttgat   360
aaagaagata gcctgaaaac gtagaatatt tccagctact tccataaatt gctcccctgt   420
    
```

gcagacgtaa ccatactctgg tctccctgga aganctgaag aattgcatga atgctagcag 480
tttcatggnc tngagcccca 500

<210> 8167

<211> 500

<212> DNA

<213> Homo sapiens

<400> 8167

gagagttgaa acaaagaaac tttaatgttc tggctgacta cactatgttg ataggctcac 60
aattactgca tctatactga aaatacatag actcttttcc ttatcatgat tccctaaaca 120
atacaataga acaactatctt gcatagcttt tataatgcat gaggtatctt aagtaactta 180
gacataattg agactataca agaggatgtg ggtaagttac atacaaatat gtcattttat 240
aaaagggact tgacatggct cacagagtgc tggaaccaat acccagcagg tatcaagcga 300
tgactgtact ggaaagaaac tgaaactact taaggcttta ccaagtgtt acattcacag 360
ggtctatctc caatgtgttt cgtacaagta tctgaaatga aataaaatta ataaatgtt 420
tcccacattc catacatctt gagagaatgc aagtgagtct ttttatgtct atgcaaggaa 480
ctgagagaac caatgctttt 500

<210> 8168

<211> 486

<212> DNA

<213> Homo sapiens

<400> 8168

cccagccctc aggccacttt attgctcaan agtgggtcagt ctgggtatc tgcatgcctg 60
aactccatga tgatgtcncc tgtgtcgggg tgaaactcca ctgcatagct gacagtcctg 120
gggccaccca gcagtgtctt gggatctggg gcagggtga anaagtagac ggcctgcttg 180
cagtgggggt tccagcagca gccccctcg gggctctgcag gctccaggag gccagtgtg 240

agcgtgcact ccgggggtcag gtggtactcc atccatagca ccgctgcgtg gctntgcccg 300
 ggccttctga gctccacggt gccctcggca cacaggggct gcaggggcac cggctgctgg 360
 aagtcaaagg tcaggatctg ccagggtctg gaaaggctgc ggcatgggta ctcccacanc 420
 ggggtggggct taacttcctt gctntcctga aatncaaggc acccttaaac atgtcgccat 480
 ganggg 486

<210> 8169

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8169

aatggtggaa atattccaaa attccatatt ttgggattta tacacaaaag ataaacaaat 60
 tagaggccaa gaggctgccg gaagggaana acggggcctg ggaaggccgt tgtgaggaat 120
 gagctgggccc taaagaggcc actggcaggc aggagctgga cctgctgaag tggccgaaag 180
 gcaggagctt tggactgggg aggccacagt gaggcgagag ctagctgggc gtggagagtc 240
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 ccaaagacgt tggtgggagg ccaaagtcgg gcctggagac gcagccggga ggaagagctg 360
 ggctgggccc gaaagaggcc actgggagge aggaggagct gggcctggan aggctgactc 420
 gaggaacttt tgcacccgga aaagcccga aaaggccgga acttggcctt ggggaaccca 480
 cttgaaaacn acttgggcct tn 502

<210> 8170

<211> 496

<212> DNA

<213> Homo sapiens

<400> 8170

ccattgcacc ttattgggt tattctgttc actgttcaga attttcatac agtctttcta 60

gaatcacaca gaggcctactg agtagctcct tccccctgac actgctttat ttctaaccag 120
 cctcctctca tcccttatcc ttagtgatg atattctgct agtgtccagg gagttcccag 180
 gggtgttttt acaggggagg gagaagggtg tgcgggtgga tgcctgcagc tttctctcct 240
 ctccacctcc tttcttggtc agcagcctcc ggacccccaa gggctaagga atcagacaca 300
 ttgggtttgg atcttgactc cactagaagc catgtgatct caggacatt tcttgacctc 360
 tctgagccct ttttccttct tctacaatgt ggagaaaaga ctccctctct cacaggggtt 420
 actacaagaa ttcaatgact ccaagtatcc aaagcatctg gcacagtgcc tgggcacaca 480
 gtacgcccta catgcc 496

<210> 8171

<211> 494

<212> DNA

<213> Homo sapiens

<400> 8171

aaaactcaag ttttattgca atacatcttg cattacattc taataataaa cggttgaagt 60
 ataaattttg aaattagtta ccaaaaatca tttactaac agtagtttta ctaaaaatac 120
 taggattggg aaaaataaac actaatagaa agtactccaa aatgttaaca acgtttctat 180
 gggcattggg attgggggtg gtttatactt tctcattttc tgtattacca acacttaca 240
 ttcacaatca ggagaaaaac ctattatatg atacttaaaa cattaaatct ctgattgtca 300
 cctataggaa aaggcaactc actatccatt tgaaagatcc ctttagactt ctgatcgacc 360
 tcactcgata actgcacaac ctctggacac aaagaggccg aattgtcccc ccaatttcac 420
 ctcccctatt acccacaaca gcagcgatat gggtttgggc tcttngtcc ccacccaaat 480
 ctncnatagt aatc 494

<210> 8172

<211> 495

<212> DNA

<213> Homo sapiens

<400> 8172

aacttttagtg gtgggtatatt cacaacagtt acacctggca aaggcttata aaccaacttc 60
 ccagaagagt tattttaaaaa aaaaagagag agagagaagg agaaagaact caagcactgg 120
 ccatattctc tgttaaacac acacacacac acacacacac acacacacaa acacacacac 180
 acaccccaaa caacaaaaat cagaaacaga agaaaattaa aaaaccaccc tgccactaaa 240
 ttgagtaatt tccagaatgc agtatcccta tgttctacag caggtcagga agatggctat 300
 aaacagagtc caggaaggtc tggttggtt cctggctctt gactccaata atttcgaata 360
 gccggtctag tttgtcctca gcctggggaa tctcttcaat caccgcagc tcctcaggat 420
 ttagaaagtg gagcatgtca tcaaagatag gctgcaagtc acaggggtca agcgtacctg 480
 ncgnacactg ggttc 495

<210> 8173

<211> 496

<212> DNA

<213> Homo sapiens

<400> 8173

gacggtgtca aactctgctt tattggaata gagaatacag gcagcaggaa tcacgcttgg 60
 tgctggcagc tccaggtccc ctgccccac gggctctccc acttgtctgg atcaggggag 120
 acctccactt tgaagaacaa tatgggggtgg gagcttccaa tgtgcattct gctaccagcc 180
 tcaggattag cagcaagatg ccaacagcaa cagcaacagc aacagcaaca gcaacaaagg 240
 actggactcg acacttcagg aaaggacgtg tagaagagaa agtcagaccc acagtgtcac 300
 gtgttaacaa cgggtcccaca acagcagaca cgacactggt gtgcatggct gtaccacctg 360
 tgggaggctg acagcacacc gacagccctg agggggcccg cattctcact cccaacatga 420
 gaaagaatta acaccacaca cacacatgtt cacattctct gcgaggacag tcaaattaag 480
 gnccccaagg gaggga 496

<210> 8174

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8174

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actaatcaaa tctattgctt ttattgtttt taagtaagtg gtggtatatg tcattctttt   60
aatgttttct ttgggaaga tcttatagaa aatggcacc tgaactttc agctctatgt  120
cccaaaaatt atctttcaac aatctgatga agtttcttaa agaaactctt aaaaatgaag  180
ataatatacc tggcctaaat caaaacaatc tgaaaaatgg atgtgtccca gtggaaagac  240
tcaagtcttt tcaagtttat cagaaatgcc actatacacc actgtactat aagtcgagga  300
ggatggatat ccaaaggat catttgttga cggttcctga tggcttcagg tatacctat  360
aatcactggg tactatgcat catttcttgt agataaatgg tattcatgtg ataagctgcc  420
atccaacttg gatgtctctg agcattccaa taatatgaat gagaaacggc agcataatat  480
tcttgccatg ccctgtanta agctctccag nctcccatta atcccgatag gnttaanaaa  540
acctcagacc gntttncctn tgccggcatt ccca                                574

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<210> 8175

<211> 589

<212> DNA

<213> Homo sapiens

<400> 8175

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gaagatggct gacctcaaat cttatatacct aaatattaac gatatcccc aagttaatat   60
acagaaaaac atgattctaa aataaataca caggcttttt aaaaaaaact taattagggc  120
ctgtctagtg atgccctggg ccggtgctgc actgcttttag ggaagcccct ggctggatct  180
atgtttccta tagcacctct aggcactggg aaggagcctg gaggagagct ctggcttcta  240
atgaccacg tggccccag tgaaaaattt ttttagaggc tccccaaaga agtctcatcc  300
agaccttaag ggaaataaaa tgaatgcatg aaataaataa ataatttaac cacaactaaa  360
tttcatgttc ttggtgtaa ttcaaggatg tctagaaaca aaataatctg attgcattat  420

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acagtccatg atgattcaat tgcccaaata gccaggaatt gaagatttat ctgctccttt 480
aacaataagg actgaccctt actggaatca tttttttaaa ttcaatatta ttnaaatcctt 540
gntgccaatc aaatccgggg tgataaggca ttaanttaag ggccncctt 589

<210> 8176

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8176

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atggtacacc tatgaagcaa gagttaata taaaccagc ctaatcctgt acacttgtga 120
ttaattgtga caatcttaag ttgctcactt ctttccatt taccaattca gagaaagccc 180
gtttcctgtt ttctctcac cactttgcct tggcatcaca ccaaccctgc ctggggcttc 240
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ctccaccaac tgagcagcgt acgcagggtt gtgcctggct tccagcatct accaccctt 360
cagagcaact tccaacatgg gacaggagag gaagctcgca ttgcttggtc tgaacagatt 420
taaggagggtt ttatcacaag gacctgaaa cttcctaagc atgctttctn cttgccagct 480
gaagaagggc aatggtggga accgggcaag gggggttgca agggccgnaa gggctttttna 540
attangggnt tnaattcnca a 561

<210> 8177

<211> 588

<212> DNA

<213> Homo sapiens

<400> 8177

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tcaaattata tcatatata gattcaattt aaaaatcctt agccctctta tatcatatta 120

tctagattat aatagtaaaa aatcaagtta cattcatatg aaactttcat aaaaagaaat 180
 caaatccagt tttatgaaat tttatagtac aattactttc tagtgggtct tttcttaggt 240
 cacagtatTTT ataattccat ttacatcttt ataattttta aaattagaaa aaaaaaggat 300
 gtcaatagaa atctaaattt tcacttgcaa aactcccttc agtttccagg ccagtaacac 360
 atgggtgatgt cgacttgtcc tccagacatg gacggctacc aaagaccccc agttcacgga 420
 gcatgcaggc ctctactcat taggaacgct ttttgggttt ggctcacgtt tcaagaaatt 480
 gtggagcatg tccatgccgt caaagatccc cangttcaag gatangttcn ggatttcant 540
 tccaaccttn ggatcattaa nccttctttt ttaaactnact gggaacc 588

<210> 8178

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8178

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 aagggagcct ctcaggggggt ggcggtccac gccagtagc acctgggagc tgtggggggcc 180
 gaggcagtcc gaaggtgtgg ggtagctctg agctcatgta cagggtccgt accccgagcg 240
 ccttgcggcg ggagccaggg cccatcagta atagtgcacg cgccccaggg tgcccggtggc 300
 cgtggggctg ggccccagcg tgcctgtgcc cagcagggtc ggctgcccgg tgcgccagat 360
 ctcccgcagg atccgttcgc gctcctccag ccgctgcgcc cgctccagct cctccgccga 420
 cgtgaagacc ttgacgttga ggggcccgtc cggcttttgc ggacagttcg ggccccgnaa 480
 cgtgtcntcg gggccaaccn agtaaccggg gcttcttgnc cttgnngn 528

<210> 8179

<211> 499

<212> DNA

<213> Homo sapiens

<400> 8179

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ctttgaattt ccatgtgcat ttatttgttt attgactctt ttcccaggag gtcagctcca 60
ccaggatagg tctttgttgg ttctttcacc gctgtacctg tgtacaggac agagcctggc 120
acacaccagg tgccagtga ttttggctga aggaagtcac aaatagggat cagccatcat 180
tactttatca tcatgatcaa caggaaagac cactgtcctc acccaatccc ctccaaaagg 240
ctttggagca gatgtcaaca ttaattcact gtctcaggig acagctctca tcctgaggcc 300
agggttgggg ggagctggga atggggcnag agtggggcct cacgtcccag gctccttgat 360
acccccacc ccaccagcc aggaaacacc acgaggcagc caaggtaag tagactcttg 420
ctgctttgtt ataaatatat tatgtacatc caaaacatga cattaaaata ttactccgtg 480
tacagaaaag atnnnnnnn                                     499

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<210> 8180

<211> 595

<212> DNA

<213> Homo sapiens

<400> 8180

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gctttgtcat ttgctattta atgttcaaac attgaaagta attgatttct tccgagacac 60
ctctttcctt ggagactttc accctcccgg tctgggctag actgaatgcc cacaagacct 120
actgtgtggc tgatgcgtgg gatctccctt tgcttccttc ccgtgttga gccattttc 180
tagatccttc acttctctgt tcttggtttg ctctgcatt ttggtgaata cattcccagc 240
agctgcctga gtggggaagc aggggaaata tccctacaca ggcagttttt cgaggtatga 300
ctgaaaaatg cctttattta gccttacact tgattgactg tttggctaaa tataggattt 360
tgtgtttaaa ataattttcc atcagctttt ggaagacact acttcaactgt attgtggtat 420
tcaattgttg ctactgaaaa tctcaatacc atctgattcc tatttcttg cattggaacc 480
taatttttct cctcctggaa cattttnaaa atggctcttt tttcccantg ttttgaaaaa 540
aaaacttttt attngaaat ccttagtttt gnaanattcn tatattcncc ctaga 595

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<210> 8181

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8181

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caatagtcca gaactgttct tttttctatt ttagggctga ggggtttcta tttagtctac   60
atgtgtcagt ctgagcaacg tgagaagtcc cctcctgaag atttcctttt gcacggctgg   120
ctcagcactg cgggtagctc ggcatthaaca aaagcgaaac ggtggtcaga ccttcacagg   180
gtccccacct cacgacgaca ctggtctacg tactccagac aggcctcagt tcttcttgct   240
gtccttctga ggctcacttt ttgtgggtccc taggttggtc cacacctctg tgtacattaa   300
ggccecaatg aagacaaaca aggtgcccag ccagtgccac aggggtgaagg ggttctggaa   360
gtacaagatg gaaaagatga ggctcacaaa ttgcgtagg gtcacgacga gcgtgacggg   420
gagggaggcg cattctgtgg tgaggataaa cacaccccgg atgcacactt ctgagtgatg   480
atgtcatgan gaggtngaac cccttaatgg caagggcact tccatgaccg gaatttntnt   540
acctnacctt ttgaannaaa c                                         561

```

<210> 8182

<211> 515

<212> DNA

<213> Homo sapiens

<400> 8182

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actgtgtaaa gctgcctttg caagcacttc acatgattca ctgaacagag cagacagaaa   60
cccctgccct tcttgggggc ttccatccta gacaagtgcc agcggcccca gttgatgcc   120
cgggcaggca atgtgcatag ccatggcacg tgccatccct gtggattcgg atgcctcctc   180
ccctgctggg gtgaggcagc caaccagggg ccaactgaaa aaatgctgga ctctcggtca   240
aggacagggc tgggagagtg ccagtctcca caaactgtgg atccactaga gggttcaggc   300
ctggggcatc ctctgcaaga ggatcccacg agagtccatt cccaccaca ggcctccgct   360

```

gctcactgct gtgccttgat cggcctggac gagcccgccc acacctccat catacccagt 420
gtgaanaggg gctggggacc caccacttct gagaacagca tncctgggaa aacccactgt 480
gaatgcncaa nangnacaat ccttaggccn agtga 515

<210> 8183

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8183

cctcattctg gtttttaatg gtcaaggtga caacagtga cagtttttcc agacccatat 60
gtaggttcca taatctccac ctgctggaga aaacaccgtg acagatgcca ttgccccagc 120
aggccactgc cgggtgtggga actttgggat caaaagcacc aagccaagtc cttgctcag 180
gatgggtcctt ggttgaaacc acaagccctt ntgcagttct aggtggatgt agtggttggtt 240
cttggctcat tgcaggggtg aagcaggaaa gagaaagaga ctggtgaggc ctgcttggaa 300
agaggattga ggcacattac gattccaaac caggagatcc tgagtcagca ctgattctgt 360
ctctggtttg ttttaatacgg gaaagggttc catccaagag cccaataggc ctcctctccc 420
aaacctgcat agcaatcaaa cttatagggg tgggtggangg tctttaccag gctaggacta 480
ctgcctatgt ttctgcaagt cacaagttaa ccagggtcaaa agaacaatgt gaaacanaac 540
ctggttaagc aaagccnaat tgtgaccttt ctttct 577

<210> 8184

<211> 550

<212> DNA

<213> Homo sapiens

<400> 8184

ccagttttan catgcaactt tattaacaac atgtaaataa aatctcaaaa gaatncncat 60
ntcaatntaa agcncagaag tntagcttac tcaggatgaa tagattcatt atcaggtcac 120

gttgcaaaaa tncataaaat atctcaattt atatnctata tagcncaata aaaatcagcn 180
catgttcagg atctcaanat taatnggtat ccataaaatn gcctccctca atcaacatgg 240
aaaacataag tattgaattt ataattncaa tatgcattgg tttcatattg caactccaaa 300
aaactgtttg aggctttatg anaacagagg ggtnttcana gttttagtat taatcgtatg 360
actttatctc tcaacttcggg atcactgngc tctgctaagt cttggagttt ctgaccaaac 420
tgttttgctt cctggaatat tgaaataagc tcaaatttag ngaacttttc cttggnaaat 480
agctttgcct ttgttttgaa ctgaaaatta tattctcaaa tttcaaaat ttaaaaaatt 540
ggnctttgcc 550

<210> 8185

<211> 579

<212> DNA

<213> Homo sapiens

<400> 8185

ggagtcttcc catataaggc acaaaagggt ctttttgttt tgctttgttt taaagcttta 60
ataaattctt ggaagattct ggattgcttg aaattatttt tagattatgc taaacatgga 120
gctgcattta cacaaaagtt cttaaaaatt gtcccaaaag ctaatttttc caagtggaat 180
aactttagaa ttgaacattt ataagattcg ctttatgttt taaggagctc taaaatctac 240
atcataatct aagaagtctt aattttgaac ttttaattcac aacgatcttc tacacgtgac 300
attatctcac gtgtatcctg taggctctct gttacggtta gctcactaga aagtgcaccta 360
agtgagctta gtgtttaatg cagcattact gtgaatttcc tttagaaact cacttttatt 420
tgtctccagt ctactttttc atctatttgn ttttggtttt ttgnttttta attttgagac 480
agagtctcat tctgtcggcc aagctggaat gcaatggaat gatctggctc attgnnacct 540
ctatctccng ggtcaacaat ctttgcctan nccttgcat 579

<210> 8186

<211> 574

<212> DNA

<213> Homo sapiens

<400> 8186

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aaatctttat ttaaaagtcc atgctaataa tgtgtttaca tttttacagt tacattatga 60
tagaaactgt tggatttttt aaatatctaa aacaatggcc cactgaagaa aggaacaatt 120
aactctttaa ttaattcctt aggataaata cccagaaatt taacagctag ggcagacttc 180
taatacaata ccgaaagtcc ttccaaaaac caagtgggtg ccaacttatg tcccttagca 240
ttataacatt cttgagccaa tagtgtaaaa atacgctgac aattttatag gcaaacatta 300
ctcaaggtat cttactttcc acttattact aaagtaatta acccctaaat agatgctcct 360
caacagtggg actacatcct ggtaaacctt tcataagttg aaactatcaa gttgaaatgc 420
atttagtacc cggataaacc tatcataaag ttgaaaatti gtaaattgaa cccagtgtaa 480
atcagaggcc atcttacttc atactcatga agcactatag ngggatattt ttcacttacg 540
agaaaaccta agcttggtgn aaaactggcc taat 574

```

<210> 8187

<211> 575

<212> DNA

<213> Homo sapiens

<400> 8187

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gttttttttag cgggtgaaca aattttaatt caaaatagac actctgaaaa caataggtaa 60
aaaaaaaaaa atgttcaaca agctctcttt gaatttaca cagagtacac caacaatcat 120
aaaccagttt cacaactgcc tcaaatatga acattatagc aattacatgc aagtattata 180
ttttttaaaa tccacatagt aacattatgt ttctcagagg ctgtcacatc ctccaaatat 240
ttctacctaa agatagagtg aaggggttcc tctgctgtgt accaccagaa atatgactta 300
ccatctaaac tggctgggtc ccatgactgg ttctgggtgt ttaagtttta atatcgtgtg 360
gggaaaaaaaa cgaggtttta catccacagg acagtacga caatggagat tctttaacaa 420
tatgccatcc catcgacccg gacacagctt ccagcctaaa ccagctagag aaaagcccgt 480
ttctccacta aacatgacct tcagaaaatg tgggtcaaaga cttactgtcc aacctggag 540

```

actgagatct tantctggaa ctttgccatg tcccc

575

<210> 8188

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8188

gcttagaaaa tgctgtgatt ttattcatag tatatacacc acaaaacaga cactttccat 60
 tattttgatt acttcaaaat ttaaaatctg cttgtttttc aattgatttt ttcatgaca 120
 gatgctgagt tctgacccat tttttcccc tgacagtatc aataggctgc ccgactacat 180
 gatacaattg ttttttagcat ttaaatttaa gactatggct cagtgtttga aaaataaata 240
 agttaacaaa agagaaacat tattaggagg aaaatgaaaa catattcacc acatgataaa 300
 aaaaatcact ccttaaaaaat caataagtgg tgtgagcatt atttcactta acctacttgg 360
 aagcactata ataccaatat acaataaaaa cagaacccat aggtagcctg gaatgatgca 420
 gtggccatca ctaattaggg gctagttgac aacataaata caaataaatg aaattcaaat 480
 taaaaaaaaac ttgnttttag cttaattggt gggcanaatg tatggcgggg gctggntgct 540
 ggcaanccgt ttaactttgc tcgcttgntt gntcgaa 577

<210> 8189

<211> 606

<212> DNA

<213> Homo sapiens

<400> 8189

cttttttttt ttacacttg ggttttaggt atttatttac aaagttctta ctaatacaat 60
 tgcttttaaa atgtagnnna agagtcattt actactctca gaagtggcac atacatggca 120
 tagaaaacaa tctatagtca gttaactatt aaaacagaaa cttgaaattt aagtgacaaa 180
 catttgtagc actccctaaa gaaataggaa ataaaaatgc atttatccat atgaacttga 240

ttattctgaa ttactgacta taaaaaggct attgtgaaag atatcacact ttgaaacagc 300
 aaatgaattt tcaattttac atttaattat aagaccacaa taaaaagttg aacatgcgca 360
 tatctatgca tttcacagaa gattagtaaa actgatggca acttcagaat tatttcatga 420
 agggtaacaa cagtcctttac cacaattttc ccatggncctt atccttcaaa ataaaaattc 480
 nacacactat caacttaaāt caagatttgc tagtgatna aattccatta atttaccgnc 540
 tntnttgaa cangctccaa caatntgggtt ttgcaaaaat ccatggttct naaacttcgg 600
 gcctat 606

<210> 8190

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8190

gattcacaa acattcagc tatatattta attttaaga cttcatgaaa ttgtgggagg 60
 ggtaaggggg aaaaaagaaa gagaaaggaa ggaccccaac aacagtaaga ctctttacca 120
 tctacatctc atctgtgttt ctcttattat aacctatgaa atatctctac ctgcagtgtc 180
 tattacaaat acaaatacca tctcactca tttcaacag ctacctcact aattcttaca 240
 cacttgacaa ctttagaact ttgtccaatt attatttggc caatgcttga aaatgattta 300
 aaggcataac cccaagtctt agaacagctt agagcaggag tataaatatt cagattccaa 360
 agacaaggac tactaccac atcaacctgc ctgtgacacc tcacaactaa gaaaccagtt 420
 tttagtagat caaagatgaa aaggtgaaac gtacagctca caaatcaaāt atctgggcac 480
 tagaaggaat aggtgtgggtt ggaaaaataa ccctttngna ttttctcagc atattttttna 540
 atggncgtac cacantntt cncctcc 566

<210> 8191

<211> 597

<212> DNA

<213> Homo sapiens

<400> 8191

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cacactgtca caatttattg aaattttata aaaactcagg ccaagtggaa gaataaggta   60
caactcaaga gtacaaagac aactccgttt ccgttcagta cttttctcct cagcactggg  120
ggtaagaaag ccccttgctc tctagtagcc aggcagcatg gacttacagt cttaaaatga  180
ggctttatgt atttcaggct ggaggcagg tgccttttct cctgaggaat ctcaggcagg  240
gtaaaagtta cttaccactc agtacctctg tgccagaaga aaagctcaat ttattcaatc  300
cttagaaaag ttactatcgt cccctgggtc gacactaagg tgtcttgata aggtccagag  360
acaaccacat agtccttatt ctaattcgta gtgaaaaggc tgcaggcata tgggtgctcct  420
acgatgggcc tgaccctttc ctaagcacat ctcatttcca catcctttgc cttctctttc  480
cccaacattt ncagccagca ttgaacccaa tttctnggna attgagaagg ggaaacngtt  540
ttntgnaccc cgacttcctt taaaatggac cggggnccaa cccaattaat tagagaa    597

```

<210> 8192

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8192

```

aaaagtaatt acaaattaag aatttattta taagttttca tctttttaga aataaaaagg   60
cttaaaaaac aaaatgggtg caaaaatggg tagttttggt atatccta attgcttaggtg  120
tgctctgtaa attccaaata agtaaaataa tataaaaata cattttcata tctttataga  180
acaaaaacaa aacattaaat gcttttggat tttctttact cctcccacag atgagttcac  240
aaatacaaaa actggtgtac atttatactc aagtacaaat ctccaacagc caagtaatta  300
tagtttcttc tgttatgtgc aaagtagatt atttcatatt tacttggtat ggaaagcaga  360
gtacaggctc aatggacaat aatcattaaa cacagattat gttaagaaa atgctgttgt  420
aaaaatgtca atagtacata caattttggg aattatgcac ttcttttaaa gtaaatacag  480
cttttagata taaatctttc aaanggtttc tttgaaaanc tgtgangnga ctatttcaga  540
attgatgaac agtaatttgg cngnaacttn t                                571

```

<210> 8193

<211> 577

<212> DNA

<213> Homo sapiens

<400> 8193

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aaggntttaa acgttttctt ttgaaaagat ggtatcttac agtacataca aaaatactct   60
gaaaatacat acgacttcat ttacaaaaca ctgaatcaac atattacaag aattacatgg  120
ttatggattt taataaactg agcatgcatt catgaaactt aaaaaatatt aagaaatgca  180
ttgaaaaaag cagcgtaaaa aaagacaact catatagtta aataaaaatt acaaagggtcc  240
tgagccaatt aatggttggg aacaatgtca ttcaaaatgc ctttaggttt caataaaatc  300
cactgcttat ttctgcatgc ctagtccgtg aagaaactat ttgaagttgt ggggtaaata  360
atgatcagga attatcatgc caagttaatt ttacacctca aaaatacaag tgtgccatac  420
ttaaaggtta tcttattgnt gatgctggaa tgagttgctc ctacagtaaaa aatccagtca  480
actaacaaga atggcatgaa ataggatatg tacaattttc cnttcatata ccggctttan  540
natccngggt aattttgaat tttaaaaaaa agccttn                               577

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<210> 8194

<211> 602

<212> DNA

<213> Homo sapiens

<400> 8194

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ggcttaaaca acagaaatth atttgctcat aatttttgag gctggaagtc caggatcaaa   60
gtgtagataa ggatgatttc ctctataatg agccttaaaa gaaggatctc ctccaggaat  120
ctctctttgc cttgaaggta accatttccg gtcacttcac ataaaattct gtgcctgcta  180
ccctgggtatc tctttcactt cttataagga aaccagtcac attgaatgag ggccccattc  240
taactgcctc attttaaaat cacctcttta aaaaaaccac atctctaaat accaccatta  300

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tcttgaggtc ccagggatga aagccttaat gttaatgagt ggatgggaca tgtgacataa 360
 tctaaatcag tgggtccccta actttttggc accaggggacc agtttcgtgg aagacatttt 420
 tcccacggac tggagttggg gattaaactg gtccagttca gatcatcagg cattagatct 480
 cataaggagt gtgcaaccta aatcccttgc atgtgcngtt cacaataaag tcatgcctcc 540
 attgagaatc taatggccct ggtgaactga canaaagtgt acctcagccn taatggttgc 600
 tc 602

<210> 8195

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8195

agatcacaaa aactttaata gtcaaagctt tgtaatttat aatgtagaa tttctcaaca 60
 tactgtcttg attacaagtt ctgatggcca ggcatgggtg ctcacgcctg taattccagc 120
 acttttggag gccgaggcgg gcagatcacc tgaggtcagg agctcgagac cagcctggcc 180
 aacatgatga aaccccatct ctactaaaaa taaaaaaaaa tagccaggcg tgggtggcagg 240
 tgcctgtaat cccagctact taggagtctg aggcaggaga atcgcttgaa cctgggaggc 300
 ggaggttgcg gtgagccaag atcgcgctat tgcactccag cctgggcaac aagagcaaaa 360
 ctccatctca aaaaaaaaaa aaaaaaaaaa gtcctgacgg nacctcagcc tccctcaaatt 420
 tcccttcccg tcctgcagaa gcaacccttc aagacttctn ccttactaaa aagtcactct 480
 tcttatagnc ttattaataa aacatggtat aattgctaaa tgtacacatt accccttaac 540
 cccttangna cgccgattct 560

<210> 8196

<211> 566

<212> DNA

<213> Homo sapiens

<400> 8196

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ggcttgtggg attttcaaga tgttttattg actatctaata ttgaatctac ttacaaagag 60
aagaaaaatg tctagtatgt aaagcaatga atgaaaataa atgtttatcc taagtcatta 120
ttgagtacaa atccacagct taacaatgtg tttttaacag caggagagca tgcaactgct 180
ctaacacaca gggtcagaaa taaaaggtaa aagtacattt gttttgtaac tgtaaatata 240
caaatataaa atttaccata tctaccctgt agtgtggcac tgcttaactg ccaaataatac 300
agtcattcaa aaaccttaag gaaacattga aaatgtctca ggctacttta ctgaacatta 360
acgaatattg tgttcttgag ctattagagc taaaagtatt atttttaag ttatatgagc 420
aagggaataa taaaagtatc atttcacgtg tcttttaatc ccatagacng ntttttggtg 480
aanggattaa ttatgttaaa aaggaaactg atttgccaaa tagaaaccag tttcagaacc 540
caagtggcct cttggtanaa tgtcaa 566

```

<210> 8197

<211> 568

<212> DNA

<213> Homo sapiens

<400> 8197

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ggttacatat actgttttta tttgggtttg ttgaatgaga ataaaaacac cccagtttct 60
tctgcaggtc gagcccttct ctataacggt cattacaaac aaccctgaag tggctggaat 120
atagtcagca aggggcccac atgaacagct catctggaat ctttgcaagt acgtatttat 180
gtccttttgt gccttgcaac gtaaggcact gttaatgacg taacagaata gaggaaatgc 240
ccacagcaaa tagttctagt gacaatttac tagacaagtt acagtttaat aatgggtggtg 300
gtgattgttt ctttcatttt attattatta tttttttaca ataagggtgt agcctttata 360
ctccacacac acaaaataaa acaagtgtt attacgaaaa gagtcctgc cccaccccc 420
tagaacatcc tgaacatagc aattcaacag aacagaaaaa tcaagacgtt tggatttcna 480
aaatttcaat taaaaaacca aaagtntgta atgcaacagc tggccaactt tcaactttta 540
aataggcncc atttaaccaa aaaaccct 568

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<210> 8198

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8198

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gaatatcagc tcttttgttg tttatttgta acaaagtga tatttggttc ctgtcagttt   60
gattccttca tttttgtctc tcattttgtt cgacatttaa gtacagcata gggatgttat   120
ttaatttaca ttctcacact ctaaaagaaa tactattctg aattaagtag aaaaagaata   180
agcaagtgta gttactctgg taccatttaa tcacattttc catatTTTTc aaattttata   240
cgataatgaa attccctctg ttcaacacaa aagaaacact cattctggaa agtgtggcca   300
tttgaggcac aaacaggtgc tgtcacattg gggcagtctg cattgtaatc agggctcagt   360
gggatataca ttttacatcg gggcttaggc cacctagtga agtcacgttt attgaaaatt   420
cctgagaaag ccacatgtgt caaagtagag cataccagga aaaatataat cttgtggggg   480
aaangcagcc atttgatctc atatatgact cttctttgaa aaggctggat gaagggtgct   540
tgaaaatggc cngctcttgn cn                                              562

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<210> 8199

<211> 557

<212> DNA

<213> Homo sapiens

<400> 8199

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ggggctgtga ctgtatttac ttattcttg aatcccgct ccccgtaggt gggggctgac   60
acatccctgg gcaccactgt gacttcctgt gggtccttc cttctgtcc ctgactctgt   120
agacccccca caggaagggt cctaggtagg gggaggttcc tcctcccttg aaaccctggg   180
ccactctgtc aaggcaaagc ctctgggccc agcaccttgt aaaggctttg atgagaggag   240
ctctggcttt tgctcagggc ctttggcacc ccaccctcca gccccagga gtgcaggcgc   300
tcaaagcctg tggttaggct gccgaagca cgtgccgcag ttcttctgga gtgggagcag   360

```


ggggacagag ctttgggtag aggaggggtca cctgcaaagc tggaatgccca ggggagtggg 420
 cgggtgccttc agctcctggg ggccaaggtg tctcatacct catgggcctg aacctgggca 480
 aggggtctgga atgcacataa cccccaagca gggaaggggc aatgacagga caaanncnctc 540
 atctgtccaa aactgnn 557

<210> 8200

<211> 556

<212> DNA

<213> Homo sapiens

<400> 8200

gcttgatgtc tggaacagtt accgaaacta gacctgtatc gcgcattctct actagtgtctt 60
 gggcctcaaa gcagtgtctca tcacctaaact gcacaaagaa atgctattag gtccaattat 120
 gagataagct gaattataaa tacacaattt tcagaacgac aggcacttaa agctcattaa 180
 gtaaaatata aaaatagatt atattaataa gaaatattta gtgttcatca aattgtaaat 240
 ctaggctttt gccatttttt aaaaaggata ctggaaactg aaaagagatg acattcatat 300
 gaacaatgca tttttcaaac ttttgttctg agcgctgaac aatctaagaa attttagcgc 360
 aatctaagaa aaaagactta ccacaaagca cctaaaataa cattgtagat ggggtgggaac 420
 gctgtcaacc atttcttaag tttcccttcc aagtctcagt atcaaggcat caagattcat 480
 ttcacaaacg attgncagcc ttcggaatca ggtantgggc ctgatgtcan aaaccgttaa 540
 aaccttagga ggggct 556

<210> 8201

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8201

agtaaaccga gtttatttac ataatacata ttttgtcatg cagcttactg aattgcagtt 60

agtgtaataa caaaaaaaga caagcactgt cttgctatTTT gaaaatggct taatatagaa 120
 agataattgt ttcttaaag agttaaccac aaccatataa attgctagac aatttaaaac 180
 agccatagat aatttttaaaa tgtaaaaatct gtaggcaaaa agctttttata gttcacacat 240
 tggtaaaatt aaaaccagtc ttttttagta ataaaactgg atagtataat cttactttta 300
 tctataaaaa caaaaataac ttaaataac atcattacaa ggctcanatt tgtagacaac 360
 tttaaaatat tttttaatgt taacaatgtc ttcaaaattt taccagtagt gctgtgcaca 420
 cagtaggtgg tcattaaatg ctgactgaca tacagaagtg tttctagtta acagcaatcc 480
 atattcattc attcattccc tattttataa taaattttca tagcngtgaa aaaatgagan 540
 gntactttct taccatttta 560

<210> 8202

<211> 571

<212> DNA

<213> Homo sapiens

<400> 8202

aaacaaaatt cacatTTTtat ttagattgaa ataaactata caaaattgat tttcttcacc 60
 aaaaataaca gcaatatTTT ccatatTTTt ctagataaac cacaacactt atTTTgtagg 120
 tttccaggT tttgcttata aatcaagatg aggcagtata taagagtcacT ggaaaaagac 180
 agagaaaaaa aacagacaaa tcagttgtca gtatccatgg cctctgattc tgtctcaacc 240
 atgaaacaga agtgttcaac atatacctgc taaaaagctt aggaagatgt aggcTccaca 300
 aaggaatgta aacagcaacg agatgtggaa caacagcagg cttttccatt caaactttgt 360
 catttgTTTc ttttaagttca agaaagacaa aatctacact gaaatccttg tttggTgagc 420
 tcacaagctt tttctccgta atttcttgta actgtccagt atagattTTTt aacatactta 480
 aaactcctat tagtcaaang ncaattgngg gcttnactac aacatTTTtat aaaatggTtc 540
 cnttcttcac acctTTTttaa aaaatatTTTt t 571

<210> 8203

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8203

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gtagtacaca gtatattgaa ctctgtaaca aaattatitt ttgagaaata cagaagttag 120
aaatagttag ttcctcaatt tgtttatagt cttatcacaa agtaggcaa agttcagtat 180
taaataaata gatataccta taaaagtttg tacaagtctt cctaaggaat tacattcgta 240
agactgttta cttctgtttt gacagcagtg acaggaacgt ggggattccc actcatgacg 300
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cttagcctgt gcgattctgg taaacacaga aaacctgcct gtccaccccc agtgctgaag 480
actgactggt caangagggt ttagtgaaag tgttgggttc accatgtgga gaacangcng 540
ngattacccg catnttcttt gntgacttta 570
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<210> 8204

<211> 567

<212> DNA

<213> Homo sapiens

<400> 8204

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aaagtgcaga cttttattac tgccattcct gctcctaatt ggagcaggag tcagaaggaa 60
aaacaaatta aaaggggcta atgagaaagg aggagagatg agacagagag tgtgaagggc 120
tatgccgctg gcatctcata aattcttatt gagaatggca caggatttaa aaaagtttct 180
gggtagtcta cgagaaatgt caattattat ctctactaca actacttaca tatatcta 240
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taaatacaac aagtgaagg tacctgtccc attcctaaaa ggatttgtgg gcaatgctgg 360
cacttggtgg ccaggagaat cttctgacct cactctccct cctcttcagt cctgaagacc 420
ccaagaaccc agttaggata ccctggccag aggtctctgt gactgcctct ggactcagca 480
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cgtgcagcag cttgggagga tttagccag tctcaaaaac ttttagcccc agaattgagac 540
cagtgcacca accaggaagg cttggga 567

<210> 8205

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8205

ctacaaaaat aagacatttc atttattaaa attttataga gaagcataca agactacaac 60
aaatcactga agtcaaggtc taaagtcttt gagaagtcag atggaccgga cgcagtggct 120
cacgtctgtg atcccagcac tttagggaggc cgagggtgggc agatcatctg agctcaggag 180
ttacagacca ccctgggcaa caaggcgaac ccccatcttt accaaaaata cagccaggca 240
tggtggagca tctgtggtcc cagctacacc agaggctgag gtgggaggat tgcttgggag 300
gcagagattg cagttagccg agattgtgca ctgcactcca gcctgggtgt cagagtgaga 360
ccccgcctca aaaaaaaaaa aaaaaaaaaa ggccgggtgc ggtggctcat gcctgtaatc 420
tcagcacttt gggaggccaa aatgggccgg atcatgaagg tcaggagtgc naaaaccagc 480
ctggccaata cnggnggaac ccttgtnnta ctaaaaattc caaantaacc cgggtgtggng 540
ggcatcc 547

<210> 8206

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8206

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tatgagactg taacaacagt agccccatct tacagatatc ctgtttgtca ttatcatcat 120
tgcttgctgc ccacagggat aaagacattg tatagagact tgtacagtcc atgatttggt 180

cttctgaggt gccagtacac gtggatctgt acaaatgcaa ctgggtttgg ttaaacaatc 240
 gaaaatcggc tacaatagta gtcaaatgaa catgtcattt tggttcatta ataaaaatac 300
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 caattgccct attttttaaa atacattggg atacaatcag ctctgttttc ttaaaagaaa 420
 atgcagattc aattgggtgg gttgcattgg cttttaaaga attagcccat taaatcttca 480
 catttgaatg attgaaatgc cnttctgata ccacgttagt ttagaaatg ccgaatccta 540
 atn 543

<210> 8207

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8207

gaaacagttc tctttaccgg tgatcactga gtgacgcctg gggcggggag gccgaccgag 60
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 tcgtggaaag aggattctcc catgcaaacc ccggagccag aggagaagg gaagcgccat 180
 tctgcgcccc ctacccccgg ggcacggaca cggccacagc acggggggcg gtgaggcccc 240
 ggggacacga gacacggggg agggagaggg gaccccgccc gcagatgacc cgggggaccg 300
 gcgaccggac gcggcggggc ggagctgagt ggcacagggg gcgaggcttg tagcagcgag 360
 tccccctcc cctcctttcg gacnaagaag gaagacttgg gccccgcgac tgggcaggaa 420
 aaaggggagg gagcaacctt ntccccgcat gccggcccg aaggaaagcc ccggccccctt 480
 tccgcggggt aaaggacacc cgttttccaa cngaaacttg ttcaattaat tnccaangtt 540
 tnagaaaang gaat 554

<210> 8208

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8208

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ggtagcatca attttttatt tatagttttt tctaaacaag atccgaagaa acttccactt 60
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cccttcattt tcaaacttac taagtgttaa caatacattt gatagtgagc agaatatgaa 180
agtacagatg ttatcaaaaag aggaaattct tatgatacta gggtcagaga ttaaagaatt 240
tgaaacaagg gctttcatga ctggggaaaa tcaaagcttt tcttgaaggg agtgggcttt 300
taatactcga gctattaatt aatgcagaa atgagataac atagttatcc tgaacatcaa 360
aaaagcaaca gctaatacag ctaatgcatt ataaataatg tatttcataa ctgaattaag 420
taaagcatgg ttaccactct aggctagaca ctaatcagtt taaccattt gtagtttcta 480
attttaaaaa agttingctt catattttta atttcaattt actatatata tattacatat 540
ntncc 545

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<210> 8209

<211> 535

<212> DNA

<213> Homo sapiens

<400> 8209

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aatttttaaa atttttttt gtaaagacag ggtttcccta tattgcccag gctgggtctgg 60
aactcctggg ctcaagggat cctccacct cagcctccca aagtgctggg attacaggca 120
gccatgccc gccagggcag tcatttttat gcacaacttt ctgtggggct caggtgcacc 180
tatgatacat aaatttacag ttcttgatcc ccaaacagag caggaggcag ggtgcctggg 240
ccaggttcc tttgggaaat gtggtccttg aggtagagtc acagatgccg gaggggtgacc 300
agcactactg gggagagatc tcctctggga gagatgcatg ccaaaggctc tctgcattcc 360
tcatactct gatgcggaca gaggggtgtc cagctgaatg atgtggggcc cccgcatctc 420
tgcaactggg cccgaatcaa cttnctggc ctgctgtccc cgggctcttg gccccttaat 480
cctnctgg gcagctcctt ccggttttt ttacatgtcc taagcccgat tgggn 535

```

<210> 8210

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8210

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gggccacact gaggcacatt tatttctctg ggtcacacag agcttggggc tgggagcctn   60
ttntgcatgg gggctgcagc tgccaaggga gcggctgana ccanaacaag cgctcgggtg  120
ggccccagtg caggttggga tgtgcccggg ggagtaaggn gtganaaccc ccagcctcac  180
tctntgcctg gtcctgaagc anacagcagc aggctggccc ancctcccct ttatganact  240
atcctagggt ttgacagcaa gtcccanatg aagggtgaca ggcagctggg gtccacctgg  300
tctctcctca gcagggggaa cccctgcgg gcagctggga aggcagtggc caaaggtaaa  360
gaagatgaac tctgccccaa cctctgctgc ctgtggctat ggtgggacag ggctgccttt  420
ctggtcacac tgggcaacaa gccaatggc aaggaccttc cantcccaag gcttnatttc  480
ctggcccga nccccttttg ttgaactttt cgattaattc nccagggtta tttt       534

```

<210> 8211

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8211

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aagaacatca acatttattt aacatgataa aaaaagaaat gagatatgaa catttgcatt   60
taaacaatag taagtagcct ttaatacatt acatgtgctc attgtataat atatacacia  120
tgaacataat tacatttgta cacaactaa gtaccggatt tgggaacctg cttattgctg  180
tacacatgta ttccaatgaa atataagccc agtacttcaa aatacctaca ctttgttttt  240
ttttttttta agaaaagata agcagtaaca tttgtgttta agctgacagg agtgtggcag  300
taactgctga cattgcaatc tgaccgagaa agaattatag cagaaaacag gacatacttc  360
acttagcaat aaaatggcac attttaata catatatata aaatttttac aaatcaagtg  420

```

tgaacaaaa gcactgcagt agctaaaatg ggaagaaaaa aagaaaacca gcttcaatgg 480
 aaataatact aacttttagga aaatgagaag ccnaaaaatt ttttntnaa ttccccagac 540
 cttaagaaac attgn 555

<210> 8212

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8212

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 tgtagacttt acaaaatcac tttttaaaat ctctgtattg tgctcctcaa atacctagag 120
 ccagtctttg cataaaatat cacagcttta tctataacct taaaattctg cagcagccta 180
 aagatatgga taagatatac caccacttgc tattctgaaa tatatctatt accatatcca 240
 acctaagtat agtatctaaa aaattctttc ttccatagga agtctctgac aagctgttat 300
 tcatttcctt gacgttaaaa gaatctgggg ccaacatttg tattttatca gaaaaaata 360
 aaaaaaaagt ttacctacca tgttcatatt aagaacaatg tctatacaag tcagttgtca 420
 attattttta gagaaagggt aacatgaaca tcagattaac ttaattctgg cagacnaaag 480
 tgaacaactt tngnccagtc agccattatc tantnccggg gagatggcca cctttccaaa 540
 agggtnnttt c 551

<210> 8213

<211> 484

<212> DNA

<213> Homo sapiens

<400> 8213

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 aatacagngg tgaatgaaag cagacatgt ccctaccct cagggagctt acagtctagc 120

ggggcanana gtcattccagc aaccccctaa taaagatata actacaaact gcgatcagng 180
 cctttanaaa aggaaagaat gccctaaaat aagggtccct ggcccaatct acagggtcag 240
 gcagggttta ctttaaggatg ctgaaaagca aaacgagcaa gtggggaggt aggggagtga 300
 naggctgctt gggaacactg tggganaggt gatgaatgca gtccccgaca aggtgagttt 360
 gaggaattat ttgggccatc agtcaagtgg agatgcccgga gtttgatac atgaagctaa 420
 gggaagaacc cggagaaaga naagggccnn aaagttaaga aggaaaaccn gccnantggg 480
 gctn 484

<210> 8214

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8214

aaagttaac agtattttatt caatttggtc attcttcttc actgaagttt cttgggcctt 60
 acatttttaa ttgataaaat agtcttaaata taacattcaa ataataagctc gttccctgaa 120
 ataattctaga gaagccctgc tccctctctt tttagactac ctataataac attctgctga 180
 gccaacatgg agcagttctc ctggcacatc ctgcctgggg aaaccgtggc agtgactgtc 240
 attaattgga gtcacagagc cctccagcc tctagactat gctgtcaagt ctgtatgggtg 300
 aaggccctga gtcaccacaa cactgaaatt gtttgaggtg ctctggaccc aggaaacact 360
 gcctggccat ggaacactct agcggaggag aggtgaggat taccctggc catggagcac 420
 tctggtgga gggaggtgac ngattatccc tggccatgga gcactctatg gaagggangt 480
 gaengattac ctcttgatc atgggcntat gaaagaaaaa ggggtggggc tctagtaaac 540
 cccta 545

<210> 8215

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8215

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aaaacaaaa aacatTTTT cattaaaaa agtatTTaga acacacaaaa caaggcaaca   60
cttattcttt tttctcatct tctggtatgg gatctgttgg tggctcctcc actgttgcac  120
tgttgctctc cgagccagtg ttactatcac tggttccttc ctctgccata ctgtcgaccc  180
cctcctgccc actctccttg tcctcaggag tagacgtgcc ttcttcacca ttctgttggc  240
tctctgttgt ttcttcaagg tgtgtctcct ctgtctccat cggaatgttc tcgtcgtctt  300
tcttctctc gcctttgtta gctgcttggt cttctcagg aacgatgctg ctctgactgc  360
gctcagcttg ctctgcggcc tccttctccc tttctcctg cctttgcggc ctgttcctct  420
gcctgtgcaa tctcagctgg caattttctc catatccact ttactttcag accggacaac  480
cttttaagct catggtnaat gaactggctt tcaggaattn ctcttcttct cggggcgctn  540
cctttttgaa naag                                                    554

```

<210> 8216

<211> 499

<212> DNA

<213> Homo sapiens

<400> 8216

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agtttaaaan aaaagagctt tatttggtc acggctntgc aggctgtaca anaaacagtg   60
agggttcag gctgcttcca cttatgcagg aagatgaagg gaggcaacgt gagcananat  120
cacagggcaa gaatgggttg aggggtaggg gtaagtgcc ggtgccagcc tcgttttaac  180
agccagctnt ggggtggggg agggacntnt agagcgagaa cttactcatt accccaccaa  240
tggaacnaag cnttcatga gggatccaaa cacctcccat taggccccac ctncacact  300
gggaatccaa tttcagcatg aggnntgcng ggttgaatat ccaaactaca tcactttatc  360
agataaatga gtagtcattc aggttgaaaa ggggtcaaaa tcctttaagg ggtcattcan  420
aatggtcaag gtcaaggttt ttgcaaccn ntttactgnt cattaatcn ttatttacct  480
tccgattaag ggaanggcc                                                    499

```

<210> 8217

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8217

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aatatttgaa gaaatttatt gagtcanata tgagtgacca tgcccatga cacagccctc   60
agaaggtcct gaggacatgt ggcaaagggtg ttcttcaaag tggtcattat taaggcatcc  120
atctcccata acttcaatgc actttgctaa acaatgcatt atttctgagg acatctgaat  180
ctgtttctgt accaatgggtc ttaatcagaa catcacataa attgccacat ctgtgtgaga  240
tactcaggac cacggactct cacacaetcc agaagaaaag gcacggattc tgctgtgcc   300
cctccaacac cattgtggaa ataaaatttc agtaaaggga ccaccagttt gacaacctgc  360
ttgggtgtact ccacaaagca gtcaaatacag ctatgtgctg caaaagggtca cttttttttt  420
ctttgagatg gagtctccct gtcaccagg ctggantgca atggcgcaat ctcggntcac  480
tgnaatcttc ggctacctgg gtcaagcgaa tcttctgaaa cagnccaag cngnana   537

```

<210> 8218

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8218

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gctttanatg cttctgggtcc catcactggg acctaaaaga agctcacatg tgggtctctgg   60
aaatgctgaa gctgtggact gtagacatta ttttcagtcc ttgtcctggt ggctgcatac  120
canatgctgc tccttccctg tgtgtggcca gctgtacaca gtgacatgct cccaaggccg  180
cggcacaggc ggtgatggga actcctcccc gggccagcct ctcaggctgc agccccacgg  240
caccctgagg ccctcatctc tgctcggcag ctaaaacatc tccttcttcg atgctctgca  300
actgcagcct ctggctcaca agagtctgc tgcctcggcg gccccgaag ccgccccccg  360
ggacaagtcc gtgctgtaac caagaccct ggcaaagcct tctcccaaa taaagtttga  420

```

ttttggcttc ggcctcaatg gctttggcca aacttgctgc gtaactgnnc aaggacttgg 480
gnactttaac ttttacctga agaatcgagt tcttgggaac ttctttgaat tgggccacct 540
tatccctnaa anntanccaa 560

<210> 8219

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8219

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cagcctcgac ctcccaggct gaagccatcc tcccacctcc gcctcccag tagctgaggc 120
tacaggtgca cgtcatcatg cctggctaata ttttgtatct gttgtagaga cgggggtttg 180
ccatgttgcc caggctggcc ttgaactcct gggctcaagt gatccgccca acttcggccc 240
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ctctcttcag acttgaaact ccacatgtcc ttgaatgtct gganaaaccc tgggacgtgc 420
cgntattcat gggtagctct ggtcaatggc accggtnggt ctttgaactt cttancgatg 480
canaacaaaa accccgtttg ggtataaaaa acatccatna acaagttggc accnngncct 540
tgggttga 548

<210> 8220

<211> 565

<212> DNA

<213> Homo sapiens

<400> 8220

gaagtagaag aacagatcat ttaattatac aaacaaaatc gctttccttt gctccagcga 60
gtccaggcaa cctttcaagt tcatttgctg cctgaaagaa aggttttttag tatcagaaag 120

aacctcgctg tcctccaata tccacaggga aaacaagatc agaaacaaaa gtccaccatg 180
 gaagaaatcc cagagcgatc caatttgga agaatttaata taacaaaata aaacggaggg 240
 aaaatggtcc aggtggggcc ctagggagat cggacttctg tcccagctga agtctgcca 300
 gcacacctgg tgggcagccc ctgggcctgt cactgcagaa ctggccttga caagcagacc 360
 cactgtgcgc gacgccacgg ttcccttacg cactcggcat tatgtacaga tatgaaaaaa 420
 cccaacggca ggtggctgga aagtggcttc tagctnccct atgctggctt ggcacgttat 480
 gcatgccaa ccangaaggt ttgcnngctt taccacacag gtaatttngc aaaaagnagaa 540
 ccaccnccaa aaggttaaata ttttn 565

<210> 8221

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8221

attttttttt taatacaatc accacaacat aagaaaattt aggtttcaac tgatgttaaa 60
 gcacatttct gtatctggtg gtttttaaaa aaattacata ttatatattt gacattttta 120
 aagacaacag aaacaaatcc acagattact ccacctttac cccactttc agctgaaagg 180
 ttttaagaaa aatcttgcag gttatgagga ccagatggag cttaaaaaca gatccggaac 240
 tttttttttg aaattttatt tacttttttt ttttgtatct caagaatact taaaggaaaa 300
 aaaaaagggt tctatgagcc agaggaattc ccaattcact ttgaaattac catacctatc 360
 ttgccatata aaacatttca attctgttaa ctaaataaac tacataatat ccttaaaaaat 420
 cagccagaga agagaaaaac aaatctcgct tcattattga ctttgacca aacttattct 480
 ttcaanggtt agttnacca ctaaataatg ctattataag aacntcttct ttaaaagnag 540
 tt 542

<210> 8222

<211> 529

<212> DNA

<213> Homo sapiens

<400> 8222

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gagatggagt cttgctgtgt tgcccaggct ggagtgcagt ggcgcaatat tggctcactg   60
caacctccgc ctcccagggt caagtgattc tcctgcctca gcctcctgag aagctggggac  120
tacaggcacg cgccaccacg cccagctaata ttttgtatit ttagtagaga tgggggtttca  180
ccatgttgac caggatggtc tcgatctctt gaccttgtga tctgcctgcc tcagcctccc  240
aaaatgttgg gattacaggc atgagccacc ggcctggcc cactagctct agtttttata  300
acacattgtc acctcagata ttcataaagg ttagatgttg caaaataata aactctgtcc  360
acaataaaca caggcacttt actaaaaatg ctcatataga cctgtgggta tcactataaa  420
ccatcttcta gaaatggaga tactagcaaa gagcctttcc tttgccttct cttctcctnt  480
ttnaccatcc cagggncitta atttnggacg ttttaacttc aaaaanggn              529

```

<210> 8223

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8223

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gttttaaata attgagcttc aagtaagggc agcaagtagt ttttcttctt tttctttctg   60
tttttctttt ttcttttctt tttttaaaga cgtgttttgc catgttgtcc aggctgggtct  120
tgaactcctg aattcaagta atcaacctgt cttggcctcc caaagtgatg ggattacagg  180
tatgagccac cgaaccagc cagcatcaag agtttttaaa ttaaggacat aacgccattt  240
cacactttaa atagactata gtgtagtgta aacatagctt ctttttttaa atagagacag  300
gatctcccta tatgccagg ttgatctcac aattcctggg ctcaagtac cctnccgcct  360
ncgctcctaa agtactggga ttataggcat gagccatcac acccagccaa tataacttca  420
tattcacaag gaaacaaaac aatttggggt gactcacttg tagcaatata cngcttaatt  480
gngngngnct cgaatcaaata ctacaatata ttgaggnatn ggct                    524

```

<210> 8224

<211> 528

<212> DNA

<213> Homo sapiens

<400> 8224

```

cttaatactt atctttatta tgaaagtgtt tccaaagtaa aatgacctc ataataatga   60
ttgtctccag agatcaagaa tgaataatta tattttcata taaaaatcag caaaacacaa  120
taacaatata taaaataatt ctaattggct aacagtatct cattccattt ctgacagaga  180
tgctcaagca ctgaattgtc ttaagaaaac aagtaagggt ttgtcaccta tcctatttct  240
cactgcaagt tgaaaaaaat caaatccaaa caccaccacc ctttctatga caacaaacgg  300
ctgtggaggt aaatgactat gtgggcaaag agttgatgaa aatcatgagc ttaggggctt  360
tatgaaactt tgggaaatca aactcagagg ttgnnttcca ttcttaaagt aatgaagctc  420
taagttaaag tttcagaatc atcacataac tggtcctatt ccatactcat ttcttttttt  480
tttttgcagg aatcttaatt tcctaaggga ggttcatgga tgacnggg                    528

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<210> 8225

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8225

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actaaattat acaataatag actcaagatt gccattgctt cttcactacc caaaatatcc   60
aagtctagcg cagcagcttc aattccacca gttgttctgt aagatttatt ttcttgacag  120
aaacaaccac tgcattatta tttttacata taaagccaca ttaagaagtg gatactgaat  180
acagaagcaa ttgtccttgg ttttctactc ctaagaatgg tcaccaagtc ataatatcct  240
caccaatggg actgcttctt aacaccctc aggaattatg aattctgagg ttaaattggc  300
atatcatgat cagaataata aaaaaagata gcaaaaatgt taaaacaagt atagagcatt  360
caggaacagt gaggggaaaa gccatttctg ntccgtcta aatgcagacc tcttcatgaa  420

```

atattttggn ggaagttctt aagcctggna tgaatnacat gcntataccc tgcccagatg 480
gaaacctgaa aaaggatatt ttaattgggtt tggataggga acc 523

<210> 8226

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8226

cattctctga gtgctattta ttgtctcaat cttcattgct taaagtcagg aaacaacaaa 60
cacattcata tttgtggcaa aacatctacc tactcatgac atggcaaata gtcattttac 120
aataacaata cagtacaata tgatcgtgct actttcatgg ctaggaatga agttgttggg 180
tttctctttc agagctaccc ctaaaggcat tcactttata ttctctgaag agaaccagct 240
aaccaggcgg aacatccact aagaatcttc cacataacca gaccccagga gcttgcctat 300
tgcccatacc agagaggccc atttggaat acaccatctg gtctcttgag cacagacctg 360
gagtgtggga ttcagcttgg ctggctccaa agctggcccc tactggatca agctgagatc 420
cccagcctgc acaggctgga ttccactggc caacacgtng gccccatggt gggctcctggc 480
cggggggttc cttttggnaa agacctggga naggaaagga gctttctatc tggagg 536

<210> 8227

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8227

aataccttgg ctttaatgat tttcaaggt taagaaacaa attcaaattg gttggagctt 60
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atctgcaaag atgatagttt ttacatatgt cctgttacct acaccaatat aattactaca 180
ttatcttata aagacaaaca gttgcttcaa actcttttaa aaatatatat ataatgagtt 240

tcccaaagac tcgagtctat attcaaagat gagtaaaaaa aatccattac ttccttaggg 300
 tcactttctt cctttactcc tgcttaaatg caaaagctga tagtttctga tttgtagaaa 360
 aatctaaagg tttctgcttt ttagacaaat tcaggttctt ttttgctttt tcttcctggn 420
 tttctgnttc atcactttca tcaaccacac gttttcgctt ctttgcttca gttccttcac 480
 ttggccgttc ttccttggct ttggtagccc caaccttttt tttt 524

<210> 8228

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8228

accaagttca taattttatt atactctgaa tagagatgat atttaaggag cagagaaaat 60
 gactatacaa aagatttata gaacattcat ttacatactg gatataattct ttacagtatc 120
 agaaaagtaa aaatatgcac taacaaggca gagaagacgt tacaaggtat ttgatgctga 180
 gaataaatgc acagtgactt ttaacatggc tatagcttaa cactggagga atacaacaat 240
 acgttctttt actgagtagt tagtaggacc ctggctataa catgcgttgg gcacagttcg 300
 tgaactctcc gcattttactc cccagggcag tacgtgcctg tccagcgga gccctggaga 360
 caaaatgcct ggaaacgttc cttttcctgt ggccctagac cgggtgtcacg gtgggggctc 420
 tcttacgnt tctgagccca cagtacaatc tgngatgacc ncacaagttg gtctggttaa 480
 tgcncatggt accccaaagg gagaaaggaa acnttctata ccagtttttn naaaang 537

<210> 8229

<211> 514

<212> DNA

<213> Homo sapiens

<400> 8229

catttgaaaa atattttattg agcacctgtt ataaggggct gagaaccata aaagacacta 60

ggggtacaga aaggaataat taagacggcc tgctcttgag ctcacagtct agtaaggaag 120
 gtaaacataa acaaatcatt acaatacaac aggaaaagag ctagagcgga gatatagaac 180
 aattgcacag aggaaagagt aactaattct gcctgaaggt aacaaggaag agatggcact 240
 tgattttgaa gtttaaggat gagtgatatt ttagcacggc agagggcaga gggggcacag 300
 ggcatccag gcagagggaa tagcatgtgc aaaggcactg aggtaaaaac atgagcatgg 360
 ttggttcaaa gaatggtgtt gaagggtaca cagaggcggg ctgtaaaggg tcttgtcacc 420
 acactnggaa gtttgnattt taccctgtan gccatgggaa agntttaagn ccacattttt 480
 catttgggtc ccanggtttc ttagaggctn ttgt 514

<210> 8230

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8230

cttttttttg gtaaggagaa gcaggagtaa aggggagtag ctgaaataga aatgaatcat 60
 gftaagaaat agtaaaatca aaattaactt ggftaataag ttgattttg ataaaagtaa 120
 atagacatgc tatatagaac aaatgaatga gtaatgtaaa taacttaaaa ttgagagaaa 180
 agctctcttt tcagggctag ctacagctct cccacaaagg ggcttttgca taccacataa 240
 cctgggtatg agaaaaagta tgggcagagg gcagtgttga gtttttgtat ctgtaactta 300
 aggtagtgtt caaaatgtcc tacaaagttc cttccagctg taaattcttt atatctaatt 360
 cctacctcct tcgtggagcc tgtttttact actccaggta catcagattt ctgaaaccaa 420
 aaaatgaatg caatttaaatt gtggctagaa ttgactagca aggcctagat ctttaagtaa 480
 taataatata ttttгнаacc attaatacct taagatcctt ttcaagnatt tggataccct 540
 ggaa 544

<210> 8231

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8231

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gcattttaac ttctttaata attcactcaa aactgtaaca cgagaggaat ccactgttta 60
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agtatgtctt taggttcata ggctgctcaa cacatttaaa gcgtatagca aatgaagtca 180
cagaactata gggctacaag aaaatcccac aagtttatag cttactgga atcagattta 240
tcttgataca gaataatcta taaactcatt taatggatcat tttgtctcat ctaacaaacc 300
acacagatgt caaccaccgg gccttgcaaa tgcagagtgg ccatttacat ttaaaatgaa 360
gtattataga caaccagaat aaaatcaatt cccgtgttta ctattttcca ttttcaatat 420
gagcatttga aatgttaata tgagatcaat ttcactatit aaactcacat tacatatctg 480
aaactccaat gagtengcan gaattngacn tctgnagncn ttggctttac at 532
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<210> 8232

<211> 541

<212> DNA

<213> Homo sapiens

<400> 8232

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aacatgtatt tctcaaaata agattcacca tgaacattat tttagatatt tttacatctt 60
ctttagctaa ccaagtgaat aatccaatat acacaaatag gtactttcat cagtacataa 120
aacagcaata ggtagcaagg ttagaaatca gaatacaagt tcaattgaat aaatacaata 180
ctagtacaga gacaccatt ttttaaccac aatgaaaaat ctgagccatg aataggtttt 240
ccattttgaa tctaacttct agatgatctg tattttgacc ttaaaggggc caaaatattt 300
aatatgggtg aagctcatgt tccattacct gtaaagggtc aatgcaacag aaaaatgggtc 360
attttacatt ggtagaatt ttttaactagg tctttcatat tattttgttt agcacatgac 420
agacttatac acatatttta aaaaatcaaa catgggaatt tctatataca tcaaaccctt 480
taaccaatgg tctgggctct ggaattgnta ttataggtgn tcnaaaattt tccaaacnaa 540
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c

541

<210> 8233

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8233

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aaaggccaga aacaaacttt aattcccaag ccggaccctt aagtcacaag gaacgtcaga   60
tccggctcac tccctgacag ggtgaattgg aaactggccc ctacttggtc tctaaccctt  120
tccactgggt ctagtgggga ctctgacgcc gaacaggggc ttagatcag tgagtgtgta  180
tgtgtgtgtg gaggggcagc aggggccgct ttccacgtgg ttacataagc acgtgttggg  240
gttgggcagg tgttcctccg gtctgagggt cctcgtatgt ccaaagtctc tgtgcataat  300
cgcagacca gatgtgtttg catttggtag aatcagggtg cttaaaaagg ggtgactgag  360
ggctgcagtt gcagagggtg ctggggactg tgcctctgtg ggggccggcg tgtctcantg  420
ggaagatact ctggggaacc cgggacnatg tcgtacgttg ggtagctgtg tggacaagtg  480
gttgggggtg tgtggacatc ggtggtcaca agctgggaaa atggtgtanc ccaaaaa   537

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<210> 8234

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8234

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gtttaaatct gcattagaga gatatgcaac attctcaggt aacattgttt ctttggttac   60
atcaagattc ttctcttcag tgaactctag atgcttcaaa gataaagata aaatattttc  120
ttctttttca gagataatat cticacgtc tcttgggcta gtgcttctat cctcacaaga  180
atatgcacac aactcaatac gttcaatttt ctctggaacc gaagaactca taattattgg  240
cactgaaaca aaacgttgat aatgttccaa cattcttggt attttttctt tgcttaccct  300
atgaatgtta cgccttgcaa gtccctttgg tttaaacttc caccatgtgt ctggttcccg  360

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aaaaaggact ttatatgtt gtttctgaga caaagcaaca tatggtttca tttcccatgc 420
 ctgtaggttt gtattatcta taattatagg agatatcttc ttctcaaag cttcttttgc 480
 acgattctgg gtccatcatg ngcttctcct aagactttac atcaactggt c 531

<210> 8235

<211> 538

<212> DNA

<213> Homo sapiens

<400> 8235

atattttaa tttttaactg taagtaaatt caaacaact gttataaac agaatacaca 60
 gttgtctgca tagatcataa aaaacataaa aaccagaatg ctgggtaggt gctgggtggtg 120
 aaaactgcag ggctaaaact tgctcaaca tgaactagg accactatgg cttaatgaac 180
 atggcccacc cctcctacta atggttttgt caacttttgg accctagaaa ttcagaattt 240
 tctccttctt cctctgccag ctttgggtccg tgtccgacta cctggctgga cagtaacttg 300
 ctttttaaag nccactaagc aatctgtggc ttctgaaatg gaaacaaaag acttgacggg 360
 agattcattt aagtcacgac gtgtgaaaga actctgcac tctctgctgc aagcctgcct 420
 cttcatcctg gtgaaggcac cctgaaggct cctggttctg aagacttgat gnetgcattg 480
 gaggcttggc ttaaactgtt ccaagaaact aagggtcggc cttactgggg ctttttct 538

<210> 8236

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8236

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 gcttactgat ttatcacaaa gcaaacacca cataggccaa gaaatattac attgcaagca 120
 ccttacatac tccactcatg cccctttccc atcaccagcc tctccctccc tttgaaaagt 180

agccattagt cttaatataa tgcagtcatt tctttactct cctttataat ttaccacct 240
aagcattcat atatatgcat gtgtataata cagtttttat ctacagaagt gtaaataaaa 300
ctattgcttt gctttgccta tatttgaact ttataaaaatt aaaatcacat agtgtatggt 360
attcttctgt gctgtttttc acgtatatte atgaaatcaa tccacattgt ggcatactgc 420
tgtaatttgc ttatttcatt gatataataat attgnacaaa atggtacaat ttatcaattt 480
ctatttataa tggacatttg ggctgggtca gttggggcta tttagaaaaa tggggcatgn 540
accggnntn 549

<210> 8237

<211> 560

<212> DNA

<213> Homo sapiens

<400> 8237

aacagcttgt actttattac atatgcaacc ttgccatgcc tgccagttaa ctcccctccc 60
gccaatgtta tctcatgat atcagctccc tcttggggcc actgagctgc ccccttttcc 120
ttctgggctg gagtagtggt gcccctcaag caggcaatgg gcagggggag atccacaatt 180
aatcgtcgca gttctcttaa aagtattaac acttaataa gcactcttgg ggagttgcaa 240
aggatattca ggatgggatg cagtgggagg ctaccctca tccaaggtag aggctggaat 300
gagctacagc tggctctatc tgggcctcag aaggtgaaga gggaccgtat tctggggctt 360
agtgtgggtg gggcatatcc tccccaaact tgttctgggtg ggcgatgttc ttcacatcta 420
ggaaagcctg gtggtggaca taggcctgac agtagtaaca ccaggctgac aggtcgatgt 480
aactgaagga ccancgggtg tncaagaatt tncatggtgg ttggaacatg tggncattga 540
tgtacnacc cagtagactt 560

<210> 8238

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8238

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aacacaatac catttatata tgatacacia gacaaacata tttgaaaggt acatccacaa   60
gtatgcaaac attcaaagtt ctggaaagac acacattaag ccatgacaac cacagaaggg  120
ctaaggaaaa tttccatggt gaaacacttc tggggccagg tgtgatagct cacgcctgtg  180
atcccagcac tttgggaggc caaggtaggc agattacctg aggtcaagga gttcaagacc  240
agcctgggtca acatgggtgaa acctgtgtct tactaaaaat acaaaaatta gcctggcggtg  300
gtggtgtgcg cctgtagtcc cagctactca agaggctgag gcaggagaat cacttgaacc  360
cgggaggtgg aggttgcagt aagcccagg tgcaccact gaactccagc ctgggtgaca  420
gaaccgagac tctgtctcaa aaaaagaaaa aaattaccgc gcatgctggc acatgcctgt  480
aatccagctc ttcaggaagc tnangcagga aaaaccntg acccccana tggaagggtc  540
aatgagccaa ggtn                                                    554

```

<210> 8239

<211> 554

<212> DNA

<213> Homo sapiens

<400> 8239

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gcttcaggcg cttttattag gttccactgc agggctgggg tcaatgtaat gcaaatacaa   60
gcccagtgat gcacacctgt gagccgaaac agagccgaag caggagcacc tgtgtcccag  120
gagcagctgg ttggagggag ccagggccag gcccacctc ctctcgggac caggagactg  180
gcagccgctg tgttcacctg ggcagggtgt caccagtgca cccccactgg attatgggtg  240
tggtagcatg agagggtgtg tccacaccaa gggcagggtga agatgcgagg tggggctgag  300
acctccttcc cacaagagga ggtggctgag cctcccaggg cctgaactct cacagcaggg  360
ctcaccceca agcctgtatg cttagctctg actctctttg gacaataaaa taaagtgcac  420
tactgaacaa agagtaactn aaaaccagaa tcagacaaat cgccnatgct ttttccttta  480
cttaaagacc aaagaaacat gaatgatgtg aatgcccgga acttnagagt aagggaatc  540
ttgtggagga caac                                                    554

```

<210> 8240

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8240

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aacagatttg tatcagttta ttttggtgca aaaactgtga aattcatgca caatttttcc 60
ataatatgta tttttccatg agcttcttga agaccacttg tactagaaaa ctgtattcaa 120
gaggatatat aaaaggattg tagatatgca agtgccattt acttctggca tgcaaggatg 180
gttcaacata ttcaagcaaa tcaatgtgat ataccacttg aacagaatga aagatgaaaa 240
ccacatcatc tcaacagatg gagaaaaatc atttcacaaa attcagcatc tgatcatcat 300
agaaatctta aacaaaatag atggagaagg aaatttacct caccaataga aagaccattg 360
atgaaatgac caatgtggag ataaccaagc agggaaaata gaatcctttt cccgtaggat 420
ctcacatgat gcaagaacgt tctcactttt tctattcaat aaatactgga agtcctagcc 480
agagcaatga actagccaaa agaaatgaat gcctcaaaat caggaaaaag ttaaaatata 540
tttttggnag a 551

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<210> 8241

<211> 555

<212> DNA

<213> Homo sapiens

<400> 8241

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actagagacg aggtttcact gtgttggcca ggatggtcac gatctcctga ccttgtgac 60
cgccccacac ggccctcccaa agtgctggga ttacagggtg gagccaccgc ccccggcctg 120
ggcttggttt tcttttaggtt tctcctgtct ggggctcatg gaacctcttc aaacttaagt 180
ttttatctta caccaaata gagaaatgtt tcatcattat tttttcaagt ggttttacta 240
catcacactt tctccttttc ttccaggata ctgaggtcac gaatgttagc catttggtat 300

```


cataacactg ctccccaagg ctgttgcaaca tatgctgaat aatttaagat tatagtctac 360
 acttctgaat tttaggttat gacactcttg ggtctgtcaa gtcccacggg tgatggagat 420
 actggttcat caggcgaagt nacctantca ggttcangag gcaagttcta ttggaaacca 480
 tgtggggtcg tgcttttcat ggtggatctg gcttaaagnc tacgcanaac tgnnttatggc 540
 tcttttnggc gaagg 555

<210> 8242

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8242

gcaacattta atacagtttt tatttgttta atttggtaaa tgtagaatgt aatggtttca 60
 aggcaaacc tgcactactt cagtcacaac ccaatagtta acatgattct gaagaacagt 120
 cttatctgca atatctaccc acttctaaac aaacacatct atagaaatcc atgtacatat 180
 atattagttt tcaacaagtc aggattttca acaactctaa aatttcaatt ttatattctg 240
 aacacacttc aaaattatcc acttgatgca ggatataacc atagggagat aaaaattcat 300
 gcaatgatac tcagggtttt tttttttaa ggtaaatacca atatttgatc attcaatgct 360
 acataaagtg cattgaatat cgaaaataaa acaagcgcca attttatcat taattaataa 420
 cacatttatt atcttgaaac caaactggcc caagttactt ttggctttt tgagtcaact 480
 ctggattaac tcaattcttt taanctttct ngggaataaa ancca 525

<210> 8243

<211> 530

<212> DNA

<213> Homo sapiens

<400> 8243

ggagggcagg taactttatt cagagcacat ggcgagtaag aggcaaaact tctgcctgcg 60

agtcaggat ttccttcact ggaggacact gcttgctccc cagagctcaa gaccctgttt 120
 tttgtctcac tcccacccac agagctcccg taccaggca tcagctccca ctcccactcc 180
 tgggggctcc atttccttcc tgcccacat tcagcctggg ccagaagttg ccactggcaa 240
 ctctagtcct gggccagatc tggcccacag acgtgtttat ttggcctaca aaaagcagct 300
 aatactttga agttaattgt caacatataa cctttgggaa attaaacaaa aaacttgatt 360
 cccattttct taaaaggcct gtgttcctc tcacagcgaa agcaggggag cagccacttc 420
 ctttagaaca ggtgctagcc cctattcaga tagcttggt cttctttaa ctgggctcaa 480
 ctggccntta ncccaagctt tggttcctt aanaaccagg cctggcccct 530

<210> 8244

<211> 519

<212> DNA

<213> Homo sapiens

<400> 8244

ggcttccaat aaaaaataat tcaactttat tagtatgaaa tatTTtgaga taattagtga 60
 cccaaatgca tgattctcca atatgaaagg tgttcagcat aagcatacaa tcatttagta 120
 aaactgctct ttatgagacc ccagaaaaag ctggaggcac ttctctttt tgggtggagag 180
 agaagacact acttaactgg ccatttcctt gctggagttt attccgattc ccttttgtct 240
 gattcttct cctcaaactc gactaaagga gtgtgtctgt tggcctgagc accttctctg 300
 tagaacactt tctttactgt gccatcctt ggagacttta tggtagctc catcttcatg 360
 gcgatcataa ccatgaggga atctcccgct ttactttgt ctccagcttt gacaaacacc 420
 ttttcaatgg tccagtcata ggagctaaag ggcccgcctg agtttcttgg gagctcacng 480
 nagataagat ttngggacct ggaaggcaaa ctcaatcct 519

<210> 8245

<211> 523

<212> DNA

<213> Homo sapiens

<400> 8245

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gggattagga gaacactctt taatgataaa gcctgtccaa gtactaagga caattagagt 60
aggcaggtga cctgtacaaa gtattagtga taacacaaca ttcagcttcc taagagttaa 120
aacgtgctgc ttacatgaag ggagatgata ctgagctaag aagtcctggg atagagaagc 180
agagagacca acctacttca tattatttat aaaatagaga atattctcag ctaacatgct 240
gggagaaaaa attcttccaa aaaggcagaa ttacaatcaa tgccaagatt tacaaattcc 300
atcatgttta aatataagga caaaaataaa catttcttat ttaaaaaaaaaa cccacaaatt 360
tccccaacta tagcttatct gttagcactt ctttatcagt ctgactattc tttaaaggcc 420
ttaaaacatg aatttgggat taaaacnaat taaagtgcc aaggtttaag aagccntatg 480
gtnacctaag gaggtaacna tataattttt agancatca tgg 523

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<210> 8246

<211> 570

<212> DNA

<213> Homo sapiens

<400> 8246

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atatttaaca gtgatttatt caaacatgtt tcacgtttgt gtattattag gtaacaagga 60
tattagaatt gagtctttac tcctatcctc tagccagtta gttttatcag ggagataatg 120
cacacatgtg tacatggaaa gatacaaaat aatacaatgc caaagaaagg aactcaaaat 180
atgataagac agaacttgag ctagatcttt tgaaaagtta ggatttagat aagttgagaa 240
gaatgagaga aaattgctca caagagttag gaatatttgt gatgtgtttg ggaaaaaaat 300
aaatggaatc atttcactgg aattgagaaa tcaattagga gatattaaaa gctggggaaa 360
ggctggattc taggggtttc atatgtcatg aagacataga tttttgagcc aggaatattc 420
gaaaagcagt gttttggaaa atangcagca gtaaataaat gagaaaatta aagagatttg 480
angcnggtag atttctaatt tnaaatcatc aangccgaga aangaaggaa ggaaaaccaa 540
ggncgtttnt cagtatggtc cttcaggac 570

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<210> 8247

<211> 576

<212> DNA

<213> Homo sapiens

<400> 8247

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cactgtgaaa tatttatitt tgttttgtag tattaagcat gattaaacca gtgcagaaaa 60
atactaagta cattgggtaa aagatgagct agctgttcta gtatttgctt ttgttaatcc 120
agttaagacc atgagcatat acaatatcat cactaactca acaatgtagc tgcagggtaa 180
catgtggata ccctgtgtgc tctactggcc tccaaaggca ttcaggggat catcaaagat 240
gttgacacc ttgtgttcaa atcttggttc aggtgcggcc tgtgcagatc ggcttttttg 300
tttggttgct ttagcctgga taccagtgga gaagatgtca tccatatcat catcaaatat 360
agacttggtt tccactttct ttttgactt ttcttttggt ttacagtta agtcagcaaa 420
gatatcaatg gtatcatcaa ataaattaga ttccaatggt ttctccttct ctctgggttt 480
ctgaaaaggg ttaaattgctt ccgtgcaaaa tttatcatcc tcaaaaatat cttgggtggt 540
aatatgacat cctgntgact acnggatttg gctcat 576
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<210> 8248

<211> 354

<212> DNA

<213> Homo sapiens

<400> 8248

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ggacnccaac tgcagcgtga tttattggac aagacgtgca cttttcaaca gggcctnagt 60
aaccacggtt tccttcaactg atcagtacag gaccagggtta aaggggctta aagataanaa 120
agacaaactn ttcccaggaa cagatgggga aagaaaggag gaagaanagg catgtcctcc 180
cttcctcctt ccctagtact ntgggcctcc gttcaccccg tgctggantg gggcctnacca 240
aggggaagctg ggggcantgt gtgtcacagc cagacatgan ctgaggctnt gactgtccac 300
tnagggtcaa aatggccagg tggacnatca actntgtccc cactnaggcc ccca 354
```

<210> 8249

<211> 562

<212> DNA

<213> Homo sapiens

<400> 8249

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aaattgaaga aagtgaaaag agtaagaggg gacattttgc atgcaaattg gccactgcca 60
gaagagccca ttaaaatgta aaaactccac attcagcctg acaaaacggt gcaaactgct 120
gtgtttgcca gagggccggc aataaagctc acaacaaagg ggccggggga caatggcaga 180
ctgaatggcc tctgccagca ggtccccccg tgcgttgcca tggggacccc accggggctt 240
actaaaggta tttcctgagg agaaaggccg agcacacagg cccaggcagc ccggctaata 300
ctgacaggaa gccatggcca ttcagcagcc caggggcttg gggcccagag ttttgttttg 360
tttttattaa aaaaagattt cggccttttg tgcgtccacc tcgtcactgt aatttaatgc 420
cnaacccgcc tgcactagcc aaagccacag caggaacctt gacccgnccc gagacceccc 480
aaaaacagat ccccccgagc ttggcancaa gacacgtgtg naatcccctt gggaatcnag 540
gncccaaaac tnttgccccg ga 562

```

<210> 8250

<211> 544

<212> DNA

<213> Homo sapiens

<400> 8250

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gagatggagt ttttagctct ttttgcccag gctggagtgc aatggcgtga tctcgtctca 60
ccgcaacctg cctcccgggt tcaagtatt ctctgcctc cgcctcctga gtagccggga 120
ttacaggcat gcgccaccac accaggctaa ttttgtatit ttttagtag agacgggggt 180
tcttcacatt ggtcaggctg gtctcgagct cccaacctca ggtgatccgc ccgcctcagc 240
ctcccaaagt gctgggatta caggtgtgag cccacacccc agcctaataa atgtttttca 300

```

tattatattc caggtaatcc cagacctcta tggggtaaatt ctggggattt cttggaagaa 360
 agtgcactca tggaggggtct gtccacttgg ctactccaa cagtttgaat ttggaattct 420
 gcttttcttc atgaagcaca agtcttataa gcccacacct acggncttga gtctgnactc 480
 ttancangtg ggaactggga ctgggggttg gctaacangg gggccactgg gcaaattggn 540
 tttt 544

<210> 8251

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8251

ctaacatgct tgtatttatt atattaaatt acaaatgcct ggagttacat ttgcttggtt 60
 tgtgtgtgcg tgcctgcgca tctatgtgtg ctagctccat attaaaatca acatttaaatt 120
 attaatgcaa ggtcacaaat ataaatggct acttggtttt tttcccttaa aaattttagt 180
 gcagctttgc tttcccttaa gtaatattta attttccatt attttctatt taagcccttc 240
 atcgtgggtg taaatggtac tgaagcccca gaaagtccta cagagatttt tcaccctaca 300
 gtagctctat gcttcaagcc taaatattta taataacctg aatattatcc ctgtttcaag 360
 gaagactttc ttgnctacgg ttcaccctag ctatgatttt atatctaaaa gataatgcca 420
 acaacaaaac agcctatacc taaaattgat gggttattct gagtctgngc agatcatctg 480
 atgaaatgna actacttacc caaataaaga cgatgntctg tacactggat agcaatn 537

<210> 8252

<211> 151

<212> DNA

<213> Homo sapiens

<400> 8252

atgagtaaag ttaaacttta ctttacagta aatTTTTTTT ctatatacaa agaattacag 60

tacatgttta tggggactcc taacacaggg ctccccctctt tttcactagg agtttcactt 120
acagctgaca atctatgggg gcggnnnnnn n 151

<210> 8253

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8253

gagaggaaat aaagtttatt taaattcagt ttgtcaaagt acaaatatct ttgtacaact 60
tacgttcttc tttcttaaaa cttaaaagct agtagtatat tttataagca tttctccaga 120
ttttgatttc acaatccaca ataaaaagac tgttttaaag aacttatttg tagaaattct 180
aaagttgtgc atttacttga aaagttactt tcacaaaggg tttttcaata tttcatctta 240
gttgtataat taaacagaat aaatggaaga attacacata aaatactatt caactagcca 300
tttttgntat tttaaaactt aacaagtctt tttttttttt tatatagcac acatatacta 360
acattttcta ctggataata taacagtaac agaaaagcat gtgttggtca aaaaagatac 420
tatngaattg ccaggcttat tgnatatttg gnggtcccat gngtaacact gngtacatcc 480
tcaattttan gggcttttaa aatggtttgg ttttgaaacc ttggttacnt aacgatt 537

<210> 8254

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8254

aatctcattt cattaccagg ccctgcgtga atgccatgtt gctttggaaa aaaaaaccaa 60
aaaagaaagt cttggtaggg aggggctttg ggaaggacca tgagagagag acagtgagaa 120
agacagattg atttatggag ctccatgact agatgctgat tttccaccag aggtcaaagg 180
gccacccccc tgtgccaatc tcctctttct ccttctctcc tcgggcagat gagcctggtg 240

gcccctggca gtgatgatgt gggaaccacc tccacaggga atcactaggg gaattctcat 300
 aggaggctcc cctttctctg tccccttctc ctgggcagtg gttcttaggg ggaacttctg 360
 ggaatgtctg ggggctgatg ctgctacagg gcctgcanag ggtgttactg gcattgatgc 420
 caggggccag gattgctgga tttcctacaa gggtaggaca tgttcaatga caaaatattg 480
 gcctcctaataat ggcaaatgcc ntaattaana agcctttgca atgccggaca agcttacaaa 540
 gg 542

<210> 8255

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8255

atgatttgct ttttaataaa aatggtaaac tggagagaga aaattagggt tcaaaaacta 60
 tagcacacct gttaaattct agtcttgact gatgtttttc aatttttatg gttttcgaca 120
 gtttaaatta catctgttac aggaatcaac cctgcatac atcacactca agtcaaagcc 180
 tgaaaagctg aggaagcaat cccaacagcc cagaggaacg tcctaaatat caatgtaaag 240
 aaataagaaa tcttaagttg aaaatcataa aaaataacta actgagtgac aattactcat 300
 ctgactcagt ctcactctta cctcaccaag tactttttgt catttctacc tctcctttta 360
 agccaaatat taaagcttat ttatggaaat tatttaccat gccacccttg cggaactgc 420
 ttactggac tatttgcagt aggactatgt ctgnagcacc ctganggtan ggattcagac 480
 agacaatctt caataccga acattttgcn taaatactat ccttccgcag gaataacnag 540
 tt 542

<210> 8256

<211> 380

<212> DNA

<213> Homo sapiens

<400> 8256

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ccccattttc cagatgagga cncgaggn cagagnggtt ttatttagct gctgaattcc 60
ctgacaagca cagagacaga ttaggtgtca ggatattatt tatagagccc ttggccttta 120
tatccctgaa tcagtcattt gacacccagt tcttgatttc agttccaaag ttatttcaac 180
cactctnadc atnaanccat tctgaaaggg anaaaggttt tnttaaaaat gatcatggag 240
aanaagtaga aaaaaatgac ctctggagtt ggacaaagct ggntccaaat cctgcaattn 300
ccncttacta gctgnntaac tctgaaaaag cttttaagtt ttnggaggtt cantatccct 360
ttttttttaa aatggngatc 380

```

<210> 8257

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8257

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gttgtttgcc tttttatttg gccaaatcca tagcgactat aactaaacca aaacatgagc 60
taagtaaagtg aaaactactt tcttctggag gtttattttg gataaaatag ttgaagacag 120
actacaatga gacattgtaa aataagacta gaaaataatt taagagcgta ttttaagcac 180
gggattccga cacactcata aacgtgtttg ctcccagctc ttacaaaaga aaataaggtt 240
tttctccatc aaaaacaacc cagttacacc agtaaactct cccagttctg aaaatctgaa 300
gcaactgata ctccattaaa tgtggaaaca ctgtctactc aaaatatttg taatattatg 360
cagtgacaaa aatttcccac acctatatag ggtaaccat agttttcagc aaagcaacaa 420
gtgctttact tatttggtt tttcagttta tacagagctn caattcatga aacnctctgg 480
gccaaaccag gaaataacag canctttta cgaagccgc caccaacggn tctt 534

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<210> 8258

<211> 540

<212> DNA

<213> Homo sapiens

<400> 8258

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ctgctacaaa gaggacatat atttgtacat ccttacccat atacataata acacaattta 60
cacataatat cttggagtgg gtcacatgg aaaaggggtc tggagagccc cttctgcctc 120
ccctgccccca atccctcttc aagggatgct tatacacttg gtcactgggg cccttcccaa 180
ctagtttgat ggggctcgtc tggacacaga aattcagaca tgtgactaaa tgctgatggg 240
catgtataca cattcacacc cacacacaca tgcagacacc tggtagagaaa aggaaaaata 300
aaattcctag cccttgggtg taggcctctt tccagagtta caagcatcag tgcctcctcc 360
atctagaata atggttttta aaagctaccc ctactgggt caaactgggg cagaagggga 420
acngctagga aaccaggaag anggaagaag gggccaggaa tctttcgaaa atataaggcg 480
ttttgacct gngatcaaat aaactttgtt cccaaaaaaa aaaagcacgc gttttnantt 540
```

<210> 8259

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8259

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gaaggaaatc tgtctttaat gagcaaatgt aaggctgcgt tttctttgcg aagtctccac 60
aggattttca cggcaaaacc aatgagaaaa tgtcctttca aagagaagac cgagtgtccc 120
gagaacattt tcttgaaagc gcgtgcacgg gccgccctct cgaggcatcg taatgtgctt 180
caaagaacac ttggtaaaac cctctggcta aaaaatcaaa atttccaaag catatacatt 240
tgaaaaaac aaaatctcca cttaaaagct tattttgact tgttgcccgg gatcaattgc 300
aaaagcgctt ctgttgagaa aggacagttc agccaaactc aagctggttt ttagaaacag 360
aactggagga agaaaaaccc agaaaacata aggcaactgg caaatgtgac gtaggctggg 420
atgaaacca ttcttcaga gcccggtctn ttccacagca caaagctgnt tctcatgcaa 480
ccagctggct naaggccccg aatgtgtnc cagaaggagg accgggcttg gggaagggna 540
aaagggaagc ttt 553
```

<210> 8260

<211> 518

<212> DNA

<213> Homo sapiens

<400> 8260

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agttcttcag gttcttctcc tggaaaggcg gaggacacac caaactgcac tggccctgtt   60
aggggacacg gcaccctcgt gggaccaggc tcagccctcg ggggtggcacg aggtcctgca  120
ggctgcagga ccctcacact ccagccccgt ctggtgaccc aaccggggcc cgtggtgcat  180
gctggggaag gccactggcc ggcccctggg cttcggctcc tgaggaggca tggccccaca  240
ccctgcccgg ccataaatat atacagattc ctgggcatcc agggcaccag gaccgacgca  300
gagctgggggt cctgtcccta agcctgtggc acagcgactc ttgacatggg agccaggagg  360
ctgggaccgc cgcacccctc ccctgcctcc ctctgggggt caccaccctc ancgggctgc  420
agctggccta ngacgccgng gaacttgctg ggtgcttggt gnccagttct ttgacctttt  480
cacaatgtnc tgggccgngg aaggcnatgg gtactcna                               518

```

<210> 8261

<211> 532

<212> DNA

<213> Homo sapiens

<400> 8261

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gagctgataa ttgatcttta ttatacagaa atgtgaaggc cataagcatt aaatgagaag   60
gagtttggca gtgaacatta tgcagattca aactgaaggt atcctcgtct tactgagata  120
taaaaataaa cactaagagt tgcaagaaag aactcaattc aacttctatc tcccaatcaa  180
gctataactt tccacaggaa aacctggttt caattcatgc cgaattgttc aaagaaaaga  240
aaaagctaaa tcagtgagag acaacacatg gactggcttt tgtcctatta gagagccaga  300
ctgaagctgt attcagcctc acatttagag actgtttcct attacaattt atatctctat  360
ttgcctaaga gatacctaaa gtgaaaaaca aaaaaatggt aactgactgg ggcattttgt  420

```

gggctaagta gatttggcag angagagaaa tgaataataa tcattaatta ttctaataca 480
gaggattnat gtcagnctgg tcatctggan taacccttga cgtttggtgg tt 532

<210> 8262

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8262

agctttgtgg gctgagttta ttttgcttct gggtataaac aaatgtagtg tatacacaca 60
tctgtccaag aaatcttgca caaggtggat ttacatggg gtatcatgca caagattaaa 120
aacaagacca aaaggtggaa attttaaaag aggaaaatat aaaggctcca aggtttaact 180
gctctgggta gaagagatca catctgttga ctgaggatca cagaaaggcc caaacgtcc 240
ataaatatcc ttggctcgta ctgcaaagta gtatttgcta ccagatacaa actgggtgag 300
agtacatgcc atgggcaagg gaagtgcctt gacttcccca atctttttcc attgtgaggg 360
cacagtggca ctgggttcct catggtaagc atagagatgg tagctatcaa cagtggcaca 420
gcttcgatcc accttcaggg acaccccatg acagtactat gccattttga ctctgaacgc 480
ctgctacttt caagtggngc ttctgangan aaaaaanntn cttggcaagt ttntgggggc 540
aaaccctt 548

<210> 8263

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8263

ctaagcagca agccacgcac ctcccgcgt ggcgaaatcc gagacccgcc ccttccggaa 60
gttttgacac tttgtgcgcc ccgggcaatg cgattgagag ggtaatcatc cgggtccgta 120
tctaaaccgc tcaactccggg aaacagcgac ccgatctttc cggatccgcg ctctccagc 180

atcctttgcc ttcggtatg tggccccgtc tggctagtcc cgcctagcgc gccatttcg 240
 agcccaagtt tccagctcgg gtttccaggc tcagaatttt ccaggagtag gttcttgggc 300
 agtggctgtg ggagctggaa tggcgcagct ggaaggttac tatttctcgg ccgccttgag 360
 ctaccttttt agtatcctgc ctctctttct ccgccttcag ccgggcgttg cgagagccct 420
 acatggacga gatcttccac ctgcctnagg cgcancgcta ctgtgagggc catttctncc 480
 tttccangtg ggggtcccaac tgttcccaac ccaagaaaag cctnaaaggg ccancgtnc 540
 cacttc 546

<210> 8264

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8264

aaattactaa tgaatgtatt tgagaaatcc aaattacatg cagacagaaa ctggtcacaa 60
 aaaccattac atttctctat actaaaactg tacaatgttt taaacatttc caatcatgca 120
 acggtaatga agatcagcat gaattttata agagttgatg ggagttcaat gaacaggatt 180
 taacacattt tacaacccaa atcaaagttg aataatacat ccaattcccc taaattttatc 240
 tatgcgttga gactgaaatg cacattattc cccacaact cctcccccta cccattccc 300
 aatcaattac cttacctata aaaccttcca tttaaccttt taagtcagat ttgatgggta 360
 aacatgtaat ctacagtata ctctccatta ttatttcagg atagacacac atatagtcag 420
 atgctgaatc ttcattacat tcctttcaaa angcatctaa actggtgcaa ttgnctatga 480
 aaattcaggc ctaggaaacc nagaaaactg ggaggcaaga atctgactan gnaggttcca 540
 actntatccg a 551

<210> 8265

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8265

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cacattcaaa acagtacata ctttattttc aagcatacaa gaaacactaa actcttccag   60
tgccagtaca ctctccatga attcttcata tagaattggg tatattggaa gcaagttggt  120
tctggtgaaa tttctgatga tcaggaatca agactcagta gccctaaagg aagagagttt  180
tgtatccaat atcctcaaaa ccaagacata gtatatTTTA ctttcaaagt aaactataaa  240
cattttacca tatecttcaa tccataaagc atctcactgt gaaatgatcc atgttgactc  300
tgcataattc tcagaagtca cttcaagtga tgagggacta actataaaac atgcattatt  360
tgaagtacat gagcatgaaa catcgaagtc tacaacttat cttaaagaa agagtaagtt  420
ccaccagctt tttattgggt gaataacnag aacacacaaa accaggcaga gaagtncgca  480
agгнаatgga tgatcatatt tcactggttt ttggnctttt ggnccctcat ctttcaagcn  540
cttccgggt t                                     551

```

<210> 8266

<211> 561

<212> DNA

<213> Homo sapiens

<400> 8266

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caggcaggtg aaagcatgat ttgctttat ttggacaata aatgtaggaa aaaagagata   60
tacctagttg ataagggttg cattcttctg aatcatcccg ttatcaactt gaccaagcta  120
aaatctttct cacaatccac ttctctttct cttcctaate tgcattggtc caggttagag  180
ttggccaaaa gaggagcttg ttcaggattt tgaagacaga agtaaagcag tggccattac  240
tctcagcagg tcgtttactc tgcattccagc ccatactctt gaatgctgac ctactgacca  300
agcaaattct catccatggc cccagagatt caatagctac acagaggcat cccatagccc  360
cctagaggag ctctctcttt gctttccatt caatcccaga gctgtgggat tctcctgcat  420
ttctttttta cttctctagt aaaatgtaat cagccttttc tgnagcatat tccatcaatc  480
actgncaaag aacatgaact tcacattaaa gaccttaaaa ggggcctccn ttttttagcc  540
aaaaaangga ccnggttncc g                                     561

```

<210> 8267

<211> 553

<212> DNA

<213> Homo sapiens

<400> 8267

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actttcttct ggaggtttat tttggataaa atagttgaag acagactaca atgagacatt 60
gtaaaataag actagaaaat aatttaagag cgtattttaa gcacgggatt ccgacacact 120
cataaacgtg tttgctccca gctcttacia aagaaaataa ggtttttctc catcaaaaac 180
aaccaggtta caccagtaaa tcttcccagt tctgaaaatc tgaagcaact gatactccat 240
taaagtgtga aacactgtct actcaaaaata tttgtaatat tatgcagtga caaaaatttc 300
ccacacctat atagggttaa ccatagtttt cagcaaagca acaagtgtt tacttatttt 360
gtctttttca gtttatacag agctccaatt tcatgaaacc atactgtgcc aaaccaggaa 420
ataaacagca acactctagc gaagccacgc caccaaacng ntactatctn ctgncctttt 480
accagctttt ctntttccag acaggcaggg cttgggcttt atatcaacac gggttattcg 540
cttcctttnt ttc 553
```

<210> 8268

<211> 547

<212> DNA

<213> Homo sapiens

<400> 8268

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actgttttaa gatcatttat tagaacagtc attcagaagc cattgagaca tcaggcagca 60
gaaaggaagg tgggatggag caggccctgt gaaggaccaa gaacaaagta atagccacag 120
ttatgaaatt tcattttatt ctgataaaga ctaatatatg cttgataacc tagtgataat 180
ccataagttt ggtatttcac aacatttttt agaaagcaca taagattaac attcaaataa 240
ggcattatag aaagttttat aaagaatgaa gtgtttccta tatttctttt aaaaaacctt 300
```

ggttcacatt gaaagatcga tgaatttttt aaatatcaga agaaaaggga aataaaattt 360
 tccccccaaa acacataaga accacttact ggcacttgta ttttaagtcc tgggaaaaaa 420
 acggaacaga tttttaaggg caataacgac ttgtaagacn gcttgnttca tttgatttgg 480
 cacgaagtaa agtnagagtn aatatgcctt ggnagacata atccaggttt tcctcatctn 540
 tcatatt 547

<210> 8269

<211> 439

<212> DNA

<213> Homo sapiens

<400> 8269

gacacgagac ataaaaactt ttaatgaagg aggacacagc tcagagccct tccacatgcg 60
 gccaaccct gcccacgga gaccggccat ggcaaccgct caatcagaag gtgttcttga 120
 tgcggccggc caccagccta aggatgtccc cgatcttctt ctgccagttg gcgatgtcct 180
 tggacacggc gcaccacagc tccccatgcc gaggtctctg actctcacag cgcttcctca 240
 cctcctcctg ctgctcctca gtgccatgct gcagctcaaa cttgtagaag aaggcccagg 300
 catccccag gtccgagtca atcttcacag tgcggtggaa ccactccctg gccttggtga 360
 tcttccgntg actccaaaac agcttggcca cggccaggan cacatggggg tcatgctcac 420
 acttnttnan ggnatncac 439

<210> 8270

<211> 548

<212> DNA

<213> Homo sapiens

<400> 8270

cagaaattga atagtttttt atttgtttgg gtcaatctca gtactactag aactcaaaat 60
 actatattct aattgttcta atttgtagca tctgcaaaag accctttaag actgcttcaa 120

tgattctgaa aagaattaac aaaaccctgt tactaggtgc ctgaccttag atattacaac 180
 tgtttcattt acaaaacctc cactacaaaa cactaagctt gcaacaaaac aacaaaatga 240
 aagccacata atttgagtaa cacaatagta catattcttc agctgatgag agtaataggg 300
 aaatgtatat acttcttaca caaatgcac tagggaaagc aggctatatt tattcaagaa 360
 ctagaaaaag gttacaatat aaatctatca aacaaaattc atttttgnta tattcaagta 420
 actcatatat attcaaattt agaccaaatc aaggacaaca atccaatcnc aggattatta 480
 tatagctcaa ggggccaaaa acaacagtct ttggcaatcc aggacttttc ntaaattcccc 540
 aatntnna 548

<210> 8271

<211> 543

<212> DNA

<213> Homo sapiens

<400> 8271

actgaaaaac tcagacttta ttcagattaa gttcctctac aaaaagtagg gttctgtccc 60
 atgtgtctct gacacattta caaaatacca gttttttaaa atttttgtca aattatgagt 120
 gggttgattta aaaacttttc caagaagaag aaaagcatgg agtcgtaatt taaagaactc 180
 aataaaaact tctatTTTTT attttaaaat aatatacaca gtgttatttt cttcaagacc 240
 gtcctgtgga tgtgaaatcc gtcttcgcgt catgtatctc ccatatccag cagttcagcc 300
 atccagctac ctttgggacc ctgctgcacc ttgtgtttgc tggggagtca ctggagagtg 360
 catctctgtt cagtttcagg gcacgtctca cacatttgct gntccttatt cattgggtgac 420
 acaggggata ggtgatccac tacttgctgt agaatgtcct tactttcact aggangcaga 480
 ttactggaat agtattgggg gaccagctgc ataaataggt cangagagat tctgaggnaa 540
 tnc 543

<210> 8272

<211> 531

<212> DNA

<213> Homo sapiens

<400> 8272

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ctttgatcaa gtttttaata agcttttttc ttacatgtac agtcatctta aaaagacaaa 60
tattaactat tataagttaa atactataca atttatgaga aatgtaattt tgtgaatttg 120
aaaagtaaaa gggaggtaac tactaaacgg attaaagaag aaaattctac tttttaagac 180
attttaacca gacagaaagt gagaaattac taatttaagt aaacactaaa aacttttact 240
gaagctggag accttatact attttagatc aaaccttcat ctacacagct ttaaataaac 300
tttaaaaaat cttttctagt acatataaga ctgctaaaaa gagtgcata ctgggggaaa 360
aaaggcatat gctagaatgt gaactcctga agaacagaaa tacatttcat tcatctttat 420
ccctggattc ctaacacaat gcctgggtca aactaaaatg cttaacaac gtttgctgct 480
tgaagtgnac tggggcnaat acatctttcc actttgggcc agtttccttc n 531

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<210> 8273

<211> 465

<212> DNA

<213> Homo sapiens

<400> 8273

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aacaagaccc aactatatgt ttattagaga agaaccagca aatatattga caaatatgtt 60
gaaagaaaat ggggtgaaaa atacaccatg caaacagtag acatcaaaag gctagactgg 120
ctagactgat atcagacaaa atatacttaa gccaaaatgt acactgcata tttttaagtg 180
gagaatttta tattgtatga aattttatgt tctgtcaatt atatcacaat aagaaatgta 240
ttatcaattt cattactcca taatgataaa agnctaating tcaaggacaa cacancagtc 300
gaaatttgta tgcatccaat atatgaagca aaaatacatg aagcaagtaa ctgacagaat 360
gaaagtgcag aagagatagt tccacaaaca tcaactgcaa tattaacatc tntacctagc 420
agntactaga acanttagac cagaaaatga ntaaagacnt nnaag 465

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<210> 8274

<211> 525

<212> DNA

<213> Homo sapiens

<400> 8274

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cttgcaaacg tcattctgtt acacaattag gtgacatgct taattctccc cagcatgggg 60
acattcttcc tttctgcaac ttcacacaca caaaatccct ggagctgtcc caagtgtgta 120
cagtaataac gttcacatgg ctactccaag catccagtga tggcaaccaa acgagatgca 180
gttaccacag agcagtagtc tgacttttga taatcaggaa taaagaaccc agtggtgaag 240
gtgctgggtc actgcctcaa tgtgggggtac cttggaaact gcctgccaaa cacaggtcaa 300
ggatggaacat acatcctcct ggggaacggc tggatcaacca gtcattgtta ggagttgaga 360
gttctactgt gggaagaggt ggcaacagct gataacacaa agcactgtgt agaccaaagt 420
gaaagtcccc atcaattgct ggttctaatt cangtgactt ctggtatatt atgggaccng 480
ntngacaaaa acnggtngtt aaagcttgaa agatttaata ngcct 525

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<210> 8275

<211> 536

<212> DNA

<213> Homo sapiens

<400> 8275

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aattcattaa cattcathtt ggtgataaaa attccttagg gtgggagcaa aatcacattc 60
ccaagcaaat gttaaattctt cctgagggaag aggggtacag ttaaacatta aattctcaaa 120
ataccactga gctcagagag gtgattgcag gtccctctga ggcaggctac accccacagt 180
gatgacagac ttggcaggtt ctgcagtaac acggtcttct tcattcagcc agcgagatcg 240
acggtgatgc ccactggggc acagaggaag ggtgcccctc gctgggaggg ccaaggaagg 300
ctaccggagg ggcaagtcca gcccatcagg gtcacatcat gggatcacag cagagttcag 360
acagaacaac ttaaaactct gcaaaagaca ctttaaaaac atgatctctt gaaaaataa 420
atcgcaacaa ttttcaactt catgccaatc ganggcngaa gantgtgaat aatgnttaaa 480

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nggaaaactt gaaaaataac ctggatcttn tttggcggaa tcagttatnt ccaaatt 536

<210> 8276

<211> 534

<212> DNA

<213> Homo sapiens

<400> 8276

attcatatcc acaaagtggg ttgtaagta ttattagtgc aaatttctgc tgacctgcag 60
catttagtcc ataaactttg gatatacctag gcatccatc agagtccagc agatgttttc 120
aattagttta atttcatctc taggcaagtt ctgtttccaa acattagtat tagttgggtga 180
tatttccctt tcatagggaa ggtaaaaaag gttttagtag gtggcaaaca atatttggtt 240
taaactagca ggagacaaag gaattccaag aaaggcaaaa atcctttcag tagttttctg 300
aggaaaatgc acaatatctt caaacttgac cagctggtag ctagtaggca gcaaactctgn 360
atttattctc aaggctgctg ctgnatttgc tagccacaag tgagacaaga nggacactgc 420
atttgatttg gatttggata attctttcct caatgggtca tactcgaagc ataaccccga 480
atttaagtta catttgcctt acctccctct attttaacaa tttgctnaaa gccc 534

<210> 8277

<211> 545

<212> DNA

<213> Homo sapiens

<400> 8277

aatgaaaatt ttaatttata tttttgttaa aatataaaag tagcattaaa ttatcaaagt 60
ctaaattaga ctaaataata atgttatata acccactgaa tggatttata gtttgacagt 120
gttccttgca agtgtctact catcttccat ctttttcctt tttttaaatc attctgcccc 180
agtccttact taatcatcac atgcacttta ttccatcaaa catcacttct caggatcatt 240
ctacctgaag aatcattaag cctgtttaga gcttttccag tcttaaaatt tgtcatcttg 300

actacacatc ccaaggtact acttttctca ctttttctgg ttagccagaa tgttccatta 360
 agaaacaata aaagttgnat agttctctaa gatgaaagat tagtatattc aatggctatt 420
 atattaacca tttaggtgga catcnacaaa aactatcctt atattaattg actggaggtn 480
 ttacntagga aataagtacc ctctctttgc attcacttaa ngctacagat nctcaggaat 540
 caaan 545

<210> 8278

<211> 502

<212> DNA

<213> Homo sapiens

<400> 8278

gatttctctg tattttatat ctctttgtta agtttattaa tgtataccgt ttttcaaata 60
 aacattttga acagcccaaa tcaatcaaag ccatgagatc acaaagtgtt gcttctcgac 120
 acaacattag cttgttcaga aaatccaaaa gccacatcca aagatcaatg atgctacctt 180
 aaagacatga gggaggctcc ttaagaccct agagacacca aggacccac agggccagtc 240
 atatgaacag gctcagaagc cggcttgatc ctcagcacct ntgcaaagcc atcaccaaac 300
 cagcaagtga catgcgctat gtctacggta aagtagaaaa ggcggtcctg gcaaagcttc 360
 cggcggtcac agaccgagga tccgctgaca gcacagcctc aatggcacgc tttgcttctc 420
 tgntgactga aaattttaaa atgacgcctg gccacatntt gngnactgag cttgcccang 480
 nccatttttg cttgaggngt aa 502

<210> 8279

<211> 546

<212> DNA

<213> Homo sapiens

<400> 8279

aaaacaacag aaatttattg tctcacagct gtggaggccg gaaatctgaa accggggggt 60

cagcaagcag ggccgtgccc ccctgtgaag gctttaggga aggatcctgt cctgcctctc 120
 cgggcagctg gtggttttct ggcagtcctt gggttccttg gcttgtgggt gcgtccctca 180
 ctctgatctc cgactccttc acacggctgc cttctccctg cgtgtctgtg ttcattgtggc 240
 catctcctta gaaggacacc agtcatgggt ggtaggggc caccacagtg acctcatggt 300
 gactaattaa tctgcaacga ctgtgtttcc aaacaagggt acattctgag gtgcttcaag 360
 ttaggacttc agcctatctt ggggtcctca gccctaacca gggcaccac tgcctncggc 420
 atcagctcct gctgggcaag cgcccgggct ggtgctctgc tccctgctta ncccgtgggc 480
 ttgnccacat gacaaggga aatggtctgc ntgcatttaa cttganaaag gaagccctta 540
 cttnc 546

<210> 8280

<211> 542

<212> DNA

<213> Homo sapiens

<400> 8280

gttcaatata gactataatt aaataatgtc ccaattagag tgtgagctca gaaagggagc 60
 ttccaagaaa agcttcacaa aagaaaggac cttggaactg aggtatctga cacctggcac 120
 tcattcaagg aatatttggt gaataaatta taggtggaat attaattaggc agcagaaatg 180
 atggtggatg ggagaattcc aagcagacct cggaggcctt gaaatgttc cctgtataga 240
 aagcagtagg tagtcggtat gaatatattat taggtaaggc tagaaatata ggatgatgtc 300
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 gtgtgggatt ctgaatggtt tttgagctgg tgaacagctg acagatgagc agtttataga 420
 atggtttctc tgtggaagca ggggaatgga ctggttaagg aagaacctta nttcttaacc 480
 ngatgacacc aangggcttt tgcantngnc cgggtaatgg gcaggaggct caattttata 540
 cc 542

<210> 8281

<211> 537

<212> DNA

<213> Homo sapiens

<400> 8281

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cccaaaaata tatttaataa gcttggtata taaaatcaaa cacttaacat tgtcaacatt   60
tcttcagtta ttcaaactca ctgatatcta actgggagta gtttgtattc tggaagactt  120
cctaagctaa aagtatattt acatatttac aacacatgta aatataactg aagaactact  180
tcaaataatg ttgaaattca cagaattcta gagatttata gttatagttt anaagtatca  240
ccaatttggt tgcaatcaaa tgtncagcac taattatgaa gaatgtttta actattaaac  300
caaaagggga gaaaaactgg gagggaaata tatggngtta aagtcctgtg ataaataactt  360
agaaaattaa aaagtaataa tatacattcg atttaatgac caaaaatttt ttttgaatcc  420
ctggtgncat tttnggagct taaccagtc tgtcanaagg cagtattgct atgctgneng  480
aacctttcac tggctcgtca aagccttgct aaagccgnac agcactggct ggaaaaa   537

```

<210> 8282

<211> 551

<212> DNA

<213> Homo sapiens

<400> 8282

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aaaggataat tgaggaaaaa aaaaaatcaa gatttggggg gaattaccta caaagatgta   60
aggtaagtcc gttggttggt gatggcctag ccatcttgct tggtttttaa aatgtgcttt  120
tctgcctcgt cctgtctcgt ctctctctac cccactcccg ggcttggaat tccaacttgg  180
tagtgctgga gccctggggt tgatgggggtc atctccaata tgatgtggat tcctttccga  240
tgggttggca ggcagatgga acaaggggtg gaagacttaa aagcaacctn tcaggccagg  300
gggaagggaa ggagctccag gccggttcag accaggaagc ctgggtacca ctttctctgg  360
ctctcttttt cagacctcca ggttgcccc cagagcttca caagtctctc ttcttctctc  420
ccatccccta atcctcgttc gccctttccc atacaagtgt gtttaatttg gccctttttg  480
ggatctaccc tgaggaagaa gccccctggt taanaggana ggtcttgtgt aggtgggntg  540

```

ggggttccca n

551

<210> 8283

<211> 558

<212> DNA

<213> Homo sapiens

<400> 8283

aaatgttcac ggcagcttta ttgctttat ttttatttag aaattggaaa taatcgaaat	60
atcgggtcaac aggtaaataa ataaactgtg gtatatccat gcaatacaaa atgtggatta	120
ttgatgtaca caaaatgggt gaatgcaaaa ataattatgc tgagtagaag cacctccccc	180
cacagtactt gctctgcgat tccactcaga taaaattcta gaatatataa attaaccttt	240
agtgagaggg agcagaccag tggttgcctg aacatggagg acacgaggga cggtttagac	300
cgggggtgtga aactgctgtt ggtggtgatg gacatgttct ggcgacagct tcacaggcaa	360
atgcatcggc cacttcacgt atgtgcagtt cattacctgt cagttacacc tcaacagagc	420
tgttttaaaa agcaaggtgg ggccggcttt ggtggctcac acctgtaatc ccacactttg	480
ggaaggccaa ggaaggagga tcnttgaggc nngaatttta agaccagnct gggcaccaat	540
nngacctnt tcttttta	558

<210> 8284

<211> 524

<212> DNA

<213> Homo sapiens

<400> 8284

acaagggccca aatgtccac gtttatttac atatgaaatg tgtttcatac agttatgatg	60
gatggagtgc ataacacctg acagcagcaa gaccttttga ggaaccgaac attgactaca	120
gtatatcatg caagtatcta tatatacaca aaagaattcc ttttcttaaa aaaaaaaaaa	180
aaaaaggtac aaaacatgtt cagggataaa tacaagatac aaaatgcaaa agaaaacaca	240

aaacaaaacc aaaaaataga actntntcag agaactataa acggaaggga cagaanagta 300
 cctntgctgc attttaataa agcagaacta ccgacgttaa atatacttct tgaaatggct 360
 gaactaaacc cgggtggctc agtgcttaag gtaacggcca attgcaatac acangcggtt 420
 gcattgataa gtcngtggtt gaaagntgng cattccgact ttttaagtncc ataacggttt 480
 gggaatnccc ccagaacang gaaccccact ttttttgcaa ncaa 524

<210> 8285

<211> 472

<212> DNA

<213> Homo sapiens

<400> 8285

ccagatatat tgagggtgac ccctctgaga ttagcacagg agagttagaa agattataaa 60
 gatacacggt cccctccctg ctcccttccc ccaccccccc acccctggac agacacacac 120
 agcacaacag cccctctccc tcccaccccc ccgtacaaat atggcttctg tgtaatatgg 180
 acagagtggg tcagcttgaa gaggaaaagt cattttccca aaagcgggtg ctgggagaca 240
 agaagctcaa caggcctggg gccccagggc tctcttgctg tngtaagagg agtaggcccc 300
 ggcttaggtg aggggctgcc tgtggtgccc aaggccctaa ccagcggtg gaagattcac 360
 aactgtatta cctgaactga aggggggtggg caggcctgnt agantgcant tgcccttttt 420
 ggatgccccat tngagacca gggaaggaaa ancctggggg naagggtggga nc 472

<210> 8286

<211> 483

<212> DNA

<213> Homo sapiens

<400> 8286

agacaattta cacaaattta ttagcctcct atgactcagt aaagcaattg aaaaaatata 60
 gctttataag gcataaatga ttttatgttt taactaaggn actttctggt aaacagngcc 120

catacatttt aggaaatatt tcagtcttta gagaataagt aaggcaaaaa caggtccagg 180
 agtctacaga tgacctcccc tcaccacaag tccaagtcac tttttttttt ttttgaaacg 240
 gngtttcgct nttgttgccc aggctggagt gaatggngtg acctcggttc actgnaacgt 300
 ntgcctccta tattcaagca agtntcctgc gtcagcctcc tgaatagcta ggattacagg 360
 agcatcgctt gaacctggga ggtggagggt gcagttagcc cgatatgacc ccactgtctc 420
 cantttgggc cccaaantga gactgtctca aaaaatnang gnaaaagaan ggaaaaaaaa 480
 naa. 483

<210> 8287

<211> 549

<212> DNA

<213> Homo sapiens

<400> 8287

aagacaagat gcaggaagaa gaaattgaga attcactaca taacttccca ccatcaaggc 60
 ttacaacag caacattttg ttttccttaa atgttcctgt ttggtagtcc aatgctcaaa 120
 aactgaagac agtatgtttt ggatcacttt tgtcctggaa gaaaaaaaaa aaagtctagg 180
 ggtcctctac aaatagttat gaccaaagct cagcaaagaa tgggaatgac tgcaattaaa 240
 tgccactggc cctggctcac taacagccag ccagtccttg ctatctggca acctttgtgc 300
 tagcttcctg cctcttgcta cacagagaac acagggcctg tcttagctca ggccaccata 360
 acgaaatacc aaagactggg tgacttaaac aggcgaaact gattttctca cagttctgga 420
 ggctggaaat ncaagatcan ggtgccagca tgatanggt cttggtgggg gctntctttc 480
 tggcttgnaa aagggcactt tctctttttt aaaatggaat gggnanccta tggatggctg 540
 gacncacan 549

<210> 8288

<211> 552

<212> DNA

<213> Homo sapiens